



Front-end (GUI) Group

COMP 730/830, Spring 2017

Professor Jonas

LEADERSHIP ROLES

Front-end (GUI) Managing Architect:

[REDACTED]

Front-end (GUI) Quality Assurance Specialist:

[REDACTED]

Front-end (GUI) Communications Director:

Patrick McElhiney

DEVELOPMENT ROLES

Graduate Front-end (GUI) Engineer, Level 1:

[REDACTED]

Graduate Front-end (GUI) Engineer, Level 2:

Patrick McElhiney

Graduate Front-end (GUI) Engineer, Level 3:

[REDACTED]

OOP Front-End Developer:

[REDACTED]

OOP Graphical User Interface Developer:

[REDACTED]

Object Oriented Graphic Designer:

[REDACTED]

CONTACT INFO

[REDACTED]

[REDACTED]

Patrick R. McElhiney

(603) 742-5112

pr22@wildcats.unh.edu

[REDACTED]

[REDACTED]

[REDACTED]

To Do List

Key:	Needs to be Assigned	Not Started	Unfinished	On-Going	Completed
-------------	----------------------	-------------	------------	----------	-----------

Task Description:	Assigned To:	Due Date:
Revise UML Diagrams	[Redacted]	03/22/2017
• Update Use Case Diagrams		03/22/2017
• Update Flow Diagram		03/22/2017
Create Site Map		03/28/2017
Clean up the Documentation		(on-going)
Re-Write Job Descriptions	[Redacted]	04/11/2017
Update Wiki	Everyone	(on-going)
Create Mock-up GUI in Photoshop or Gimp	[Redacted]	04/04/2017
• Change Color Scheme to White, Pink, Red		04/04/2017
• Space stuff out more in Gallery		04/04/2017
• Larger Icons on Services		04/04/2017
• Navigation on the Top		04/04/2017
Write New Content for New Site	Patrick M.	04/04/2017
GRC Slide	Grad Students	04/10/2017
URC Slide for Front-End	[Redacted]	04/10/2017
Develop Skeleton HTML / CSS Page	[Redacted]	04/11/2017
• Convert Photoshop or Gimp Images to HTML / CSS	[Redacted]	04/11/2017
• Use Image Maps to map all the small icons from a single image, like Google / Yahoo	[Redacted]	04/11/2017
• Friendly for the disabled, i.e. Alt tags, written descriptions of pictures, etc.	[Redacted]	04/11/2017
• Create the HTTP 404 Error Page	[Redacted]	04/11/2017
• Create the Search Timeout Page	[Redacted]	04/11/2017
• Comment all code according to OOP standards	[Redacted]	04/11/2017
Develop PHP Codes to Access Database with MySQL	Everyone	04/11/2017
Perform Cross-Browser Compatibility Testing	[Redacted]	04/18/2017
• Use W3C Compliance Checker Online	[Redacted]	04/18/2017
• Make or suggest revisions to HTML/CSS	[Redacted]	04/18/2017
Merge HTML / CSS Skeleton into PHP / MySQL	[Redacted]	04/25/2017
• Get Statistics Code Working on Site	[Redacted]	04/25/2017
Play with Responsive Website Design	Everyone	05/09/2017

Notes Regarding Weekly Assignments

If your name is not listed to finish a specific task during any week, your job is to assist who is leading the project operations during that week per the schedule. Always stay in contact with the Architect, and the person who is responsible for delivering the finished item(s) by the specified due dates.

Note that if you do not perform each week, you will be graded down per the group's grading of you – so be sure you are on top of everything.

If any part of our project responsibilities is failing – it is ultimately the responsibility of the other Engineers to pick up the pieces and take over.

If you need help, please ask a Graduate Student.

If for some reason, you are unable to complete a task, make sure you send all the materials to both the Architect ([REDACTED]), Quality Assurance ([REDACTED]) and Communications (Patrick M.).

Please note that if you are a Graduate Student, you have additional responsibilities as defined in the Job Descriptions, and per any other agreed to schedule or timeline per the group.

- Architect should coordinate and manage all aspects of the team / group.
 - All members of the group should stay in contact with the Architect, every week, multiple times per week, to provide updates, hold meetings, etc. as required per the project.
- Quality Assurance should develop questions and test parameters on a weekly basis, and answer the questions to determine if the quality of the workmanship is up to par.
- Communications should keep all members on the same page, not just with what our group is doing, but what all the groups are doing.
 - Undergraduate and Graduate Students are encouraged to reach out to Patrick M. on a weekly basis, multiple times if possible, to get updates, request information, request help, etc.
 - They should also not necessarily wait for Patrick M. to respond – it is not off limits to contact any member of the class regarding any work that is being done. If you need to contact someone in Software Development or Database, you should be able to do that on your own, too – but just keep Patrick M. in the loop.

EXPECTATIONS OF TEAM MEMBERS

Per the Class [Syllabus](#),

All Team Members are Expected To:

- Assume Developer Roles.
- Write the User Requirements of a Real-World Team Project, **Intensively**, through:
 - **C**apture,
 - **A**nalyze,
 - **R**efine,
 - **D**ocument.
- Participate in Weekly Development Activities, by Working in Teams to Build Models of a Real-World System, Including:
 1. Requirements Elicitation and Analysis,
 2. System and Object Design,
 3. Implementation and Testing,
 4. Project and Configuration Management,
 5. Infrastructure Maintenance,
 6. System Deployment to the End User.
- Deliver a Proof-of-Concept, or Prototype of Me&You.
- Carry on the Architectural Task of System Analysis.
- Plan for, Manage, and Mitigate Risk Factors the Team Might Encounter.
- Improve Personal and Interpersonal Communication through Interaction with Team Members and a Real Client.

JOB DESCRIPTIONS

FRONT-END (GUI) MANAGING ARCHITECT

- Responsible for all front-end (GUI) designing / front-end (GUI) engineering tasks.
 - Develops the overall front-end (GUI) design / front-end (GUI) structure, and disseminates information about it to task other group members to develop the IP assets and configurations that will be needed for the front-end (GUI).
 - Develops Use Cases and Use Case Diagrams to lead the Front-end (GUI) Group in the development of the front-end (GUI) for Me&You.
- Manages the Front-end (GUI) Group on a weekly basis, assigning tasks to Graduate and Undergraduate students.
 - Manages / Updates the Job Descriptions for the entire Front-end (GUI) Group, assigning additional work / sub-blocks as needed based on the overall needs of the Front-end (GUI) Group.
 - Facilitates the development of the core infrastructure with the Software Group and Database Group, based on the architecture of the Front-end (GUI) design.
- In charge of packaging up everything for Front-end (GUI) Group for the next Semester.
- Maintain communication with the client (*Professor Jonas*).
- Keeps Graduate Logs Starting on March 1st, 2017.
- Coordinates the Quality Assurance process with the Front-end (GUI) Quality Assurance Specialist.
- Communicates with other Architects regarding the Project Scope and Configurations of the overall Project Front-end (GUI) Core.
- Coordinates communications with the Front-end (GUI) Communications Director, and with other groups per and through the Front-end (GUI) Communications Director.
 - Communicates the Front-end (GUI) Design and Engineering Scheme to Database and Software Development Groups
- Acts as Graduate Front-end (GUI) Engineer Level 3, in support of the Front-end (GUI) Architect's goals and tasks on a weekly basis.
 - Sets up Server for Front-end (GUI), and imports Front-end (GUI) to Server.

JOB DESCRIPTIONS (continued...)

FRONT-END (GUI) QUALITY ASSURANCE SPECIALIST

- Responsible for all front-end (GUI) quality assurance processes, including the development and fulfillment / verification of all Quality Assurance questions dealing with the Front-end (GUI) Group.
 - In charge of all Requirements Elicitation processes
 - Refines lists of attributes based on input from the Database and Software Development Groups, as well as the Front-end (GUI) Group.
 - Coordinates with other QA Specialists, to streamline the process of developing QA procedures and limitations for each of the groups' Quality Assurance and separately for Front-end (GUI) group with input from the other QA Specialists.
 - Maintains systems associated with Source Code Control, and ensures proper documentation in Source Code, in addition to QA procedures dealing with the Source Code
 - Double checks the Source Code Control processes and procedures
- In charge of the maintenance of all documentation dealing with the Front-end (GUI) Group, working with the Communications Director to disseminate the information to other groups on a timely basis.
- Keeps Graduate Logs Starting on March 1st, 2017.
- Acts as Graduate Front-end (GUI) Engineer Level 1, in support of the Front-end (GUI) Architect's goals and tasks on a weekly basis.

JOB DESCRIPTIONS (continued...)

FRONT-END (GUI) COMMUNICATIONS DIRECTOR

- Coordinate all communications between Graduate Students with weekly Zoom meetings (*Tuesdays 4:00PM – 6:00PM*), before class meetings (*Wednesdays 3:30PM – 5:30PM*), and after class meetings (*Wednesdays 8:30PM – 9:30PM*)
 - Between Front-end (GUI) Group and Database Group
 - Between Software Development Group and Database Group
 - Between Front-end (GUI) Group and Software Development Group
- Maintain communication with the client (*Professor Jonas*) and communicate and coordinate all contributions to the project, overall.
 - *“Improve personal and interpersonal communication through interaction with team members and a real client.”*
- Ensures that all groups are on the same page, per the communication requirements between different groups – including between Architects, between QA Specialists, and between Engineers.
- Coordinate all communications between Graduate Students and Undergraduate Students in the Front-end (GUI) Group (*Starting in March 2017 – May 2017*)
- Develops and Maintains Timeline Plan, based on the Deliverables Identified by the Front-end (GUI) Architect, and the Front-end (GUI) Quality Assurance Processes as Identified by the Front-end (GUI) Quality Assurance Specialist
 - *“Plan for, manage, and mitigate risk factors the team might encounter.”* in terms of the planning of deliverables, and the timing of the project, by managing the group on a ramping-up basis from week to week using communications and Microsoft Project management tool with Gantt Chart
 - Keep track of how many hours each student has spent towards the project in Microsoft Project, or otherwise in some type of table or chart such as Excel
- Updates the Wiki page on a weekly basis.
- Keeps Graduate Logs Starting on March 1st, 2017.
 - Develops outline form for Graduate Student Logs, and disseminates this to every Graduate Student by March 1st, 2017.
- Acts as Graduate Front-end (GUI) Engineer Level 2, in support of the Front-end (GUI) Architect’s goals and tasks on a weekly basis.
 - Develops an Outline Form for the Front-end (GUI) Group Documentation, and disseminates this document to the Front-end (GUI) Group, as well as the other groups as an example for them to copy and use with their own information.

JOB DESCRIPTIONS (continued...)

OBJECT ORIENTED GRAPHIC DESIGNER

(ADOBE CREATIVE SUITE, GIMP, OR SIMILAR GRAPHIC DESIGN SOFTWARE EXPERIENCE)

- Creates mock ups of website user interfaces, including a graphical image of all respective interface pages
- Manages the stock images that are used for the interface elements
- Has full control over the design of the entire graphical user interface, from the graphical perspective.

OOP GRAPHICAL USER INTERFACE DEVELOPER

(HTML / CSS / JAVASCRIPT)

- Creates the front-end code, including with:
 - HTML 5,
 - Cascading Style Sheets (CSS),
 - Form elements and their protective JavaScript elements,
 - Responsive Website Design, or the creation of code that manipulates the information based on the needs of the device that is viewing the website.

OOP FRONT-END DEVELOPER

(PHP, PERL / CGI, ETC.)

- Responsible for writing the code that interfaces with forms on the GUI with the program calls that access the database and make decisions about what content to return.
- Patrick McElhiney will assist [REDACTED] with writing example PHP codes, and show him how to access the database using various examples. He will be expected to implement the solutions, through duplicating the required codes and modifying the code to fit the parameters of the database input/output requests.

TEAM RESOURCES

- Experience
 - [REDACTED] – what is your experience with HTML, CSS, PHP, Graphic Design, etc.?
 - Patrick R. McElhiney runs his own Marketing Firm, [MCE123](http://www.mce123.com) (www.mce123.com), which has experience producing websites that use HTML/CSS/PHP/MySQL. He will help [REDACTED] and others with the PHP, Graphic Design, or any other elements of the Front-end (GUI) Group's tasks on an as-needed basis.
 - [REDACTED] has a little PHP experience, willing to lend a hand.
 - [REDACTED] is a graphic design artist – does she have Adobe Creative Suite?
 - [REDACTED] – experienced with HTML/CSS, with a little bit of PHP.
- Schedules (*When are people available?*)
 - [REDACTED]
 - Weekends.
 - **Saturday** - Any time after 7PM
 - **Sunday** - Any time after 9AM
 - **Monday** - Any time before 6PM
 - **Tuesday**- Any time after 5PM
 - [REDACTED]
 - Weekdays. Most evenings.
 - Patrick R. McElhiney
 - **All Days, All Times – Until Further Notice**
 - [REDACTED]
 - Available **Friday-Sunday, and maybe some other various times.**
 - [REDACTED]
 - Whenever – Times? Days?
 - [REDACTED]
 - **Weekdays**
 - **Monday** – Virtually Any Time.
 - **Tuesday** – Virtually Any Time.
 - **Friday** – Virtually Any Time.
 - **Saturday** – Virtually Any Time.
 - **Sunday** – Virtually Any Time.
- Computer Programs
 - [REDACTED] said he uses Gimp to edit graphics.
 - Patrick M. has the following programs, which can be used in his office in Barrington, NH. If advance notice is given, the applications can be loaded on a laptop that can be brought to the UNH Manchester campus – but the laptop cannot be loaned out.
 - Dreamweaver – for coding HTML / CSS / PHP
 - Photoshop – for editing graphical layouts
 - Illustrator – for editing vector graphics
 - [Gimp](#) is a free graphics editor, like Photoshop.
 - [Notepad++](#) will be needed.
 - [Eclipse Neon](#) is a free IDE for editing PHP, JavaScript, and other coding languages.

TEAM RESOURCES (continued...)

- Team Collaboration Resources
 - Slack – OOSE Slack, setup by [REDACTED] – he is Administrator.
 - [Download Slack](#) for Desktop
 - oose-team.slack.com
 - Zoom
 - zoom.unh.edu
 - Patrick McElhiney's Meeting ID: 308-196-7750
 - Join from PC, Mac, Linux, iOS or Android: <https://unh.zoom.us/j/3081967750>
 - Office 365 - For all Office 365 Apps, Including SharePoint, Skype, Etc.
 - <http://wildcats.unh.edu>
 - Me&You Project Wiki
 - <https://foss.unh.edu/projects/index.php/comp730:MeAndYou>
- Other Useful Websites
 - **Redmine** – [REDACTED] (Software Architect) is setting this up for Project Management, Configuration Management, Feature Requests, and Bug Tracking.
 - <http://www.redmine.org/projects/redmine/wiki/Download>
 - **Object Management Group** - see this site for UML Specifications, and other types of Diagram specifications.
 - <http://www.omg.org/spec/>
 - **COMP 730/830 Course Website** – Professor Michael Jonas
 - <https://pubpages.unh.edu/~mcy59/comp/730/>

TEAM RESOURCES (continued...)

- Online Resources

- [W3C Validator for HTML, XHTML, ...](http://validator.w3.org/) – use to check for cross-browser compatibility. (<http://validator.w3.org/>)
- [W3C Validator for CSS](http://www.css-validator.org/) – Check Cascading Style Sheets (CSS) and (X)HTML documents with style sheets. (<http://www.css-validator.org/>)
- [Free SEO Tools](http://tools.seobook.com/) – for Search Engine Optimization (SEO) (<http://tools.seobook.com/>)

- Books

Patrick M. has loaned several books out to students in COMP 830/730. Please ensure that they are returned when they are no longer needed for the project. If additional books are needed, you can check them out at the Library, or ask Patrick M.

Loaned On:	Loaned To:	Book Loaned:
○ 3/1/2017	██████████	Professional Website Design
○ 3/1/2017	██████████	HTML 5
○ 3/1/2017	██████████	PHP / MySQL
○ 3/8/2017	██████████	Responsive Website Design

Additional books available from Patrick M.'s website design collection:

- **Pro jQuery** – covers the application and use of jQuery, an extension that simplifies JavaScript.
 - **The Web Designer's Web Handbook** – mostly covers graphical user elements and layouts of websites.
 - **The Web Designer's Idea Book (Volume 3)** – “inspiration from today's best web design trends, themes and styles” – covers GUI / user interface design
 - **Web Developer's Cookbook** – “More than 300 Ready-Made PHP, JavaScript, and CSS Recipes” – code of examples is printed in the book, rather than on a CD/DVD.
 - **Web Design Tips, Tricks & Fixes (Volume 2)** – “Unlocking the potential of web design.” – Covers HTML5, CSS3, jQuery, PHP, Photoshop examples. Includes a CD.
 - **The Web Design Book (Volume 2)** – “The ultimate guide to creating stunning websites.” – “Essential guides to HTML5, CSS3, WordPress & Photoshop”
- Other Borrowed Resources
 - If there are any other borrowed resources, please ensure they are returned on-time before the end of the class.

MEETINGS SCHEDULE

All Groups, All Members

→ Unless Specifically Excused Due to Schedule Conflict – Must Notify Patrick McElhiney in Advance

Weekly Zoom Meetings:

Tuesdays 4:00PM – 6:00PM

Graduate Students – Starting 2/21/2017 through 5/14/2017

⇒ All Graduate Students Also Meet on 3/14/2017 During Spring Break

Undergraduate Students – Starting 3/21/2017 through 5/14/2017

[zoom.unh.edu](https://zoom.us/j/3081967750)

Patrick McElhiney's Meeting ID: 308-196-7750

Join from PC, Mac, Linux, iOS or Android: <https://unh.zoom.us/j/3081967750>

Software Development

Before Class Meetings:

Wednesdays In-Person 3:30PM – 5:30PM

Graduate Students – Starting 2/22/2017 through 5/10/2017

⇒ We Will Not Meet in Person on 3/15/2017 During Spring Break

Undergraduate Students – Starting 3/22/2017 through 5/10/2017

Front-end (GUI) & Other Groups as Needed

After Class Meetings:

Wednesdays In-Person 8:30PM – 9:00PM

Graduate Students – Starting 2/22/2017 through 5/10/2017

⇒ We Will Not Meet in Person on 3/15/2017 During Spring Break

Undergraduate Students – Starting 3/22/2017 through 5/10/2017

Final Stretch

Last Week TBD Meetings:

May 11th through May 15th (Please Request Vacation Time in Advance if Possible)

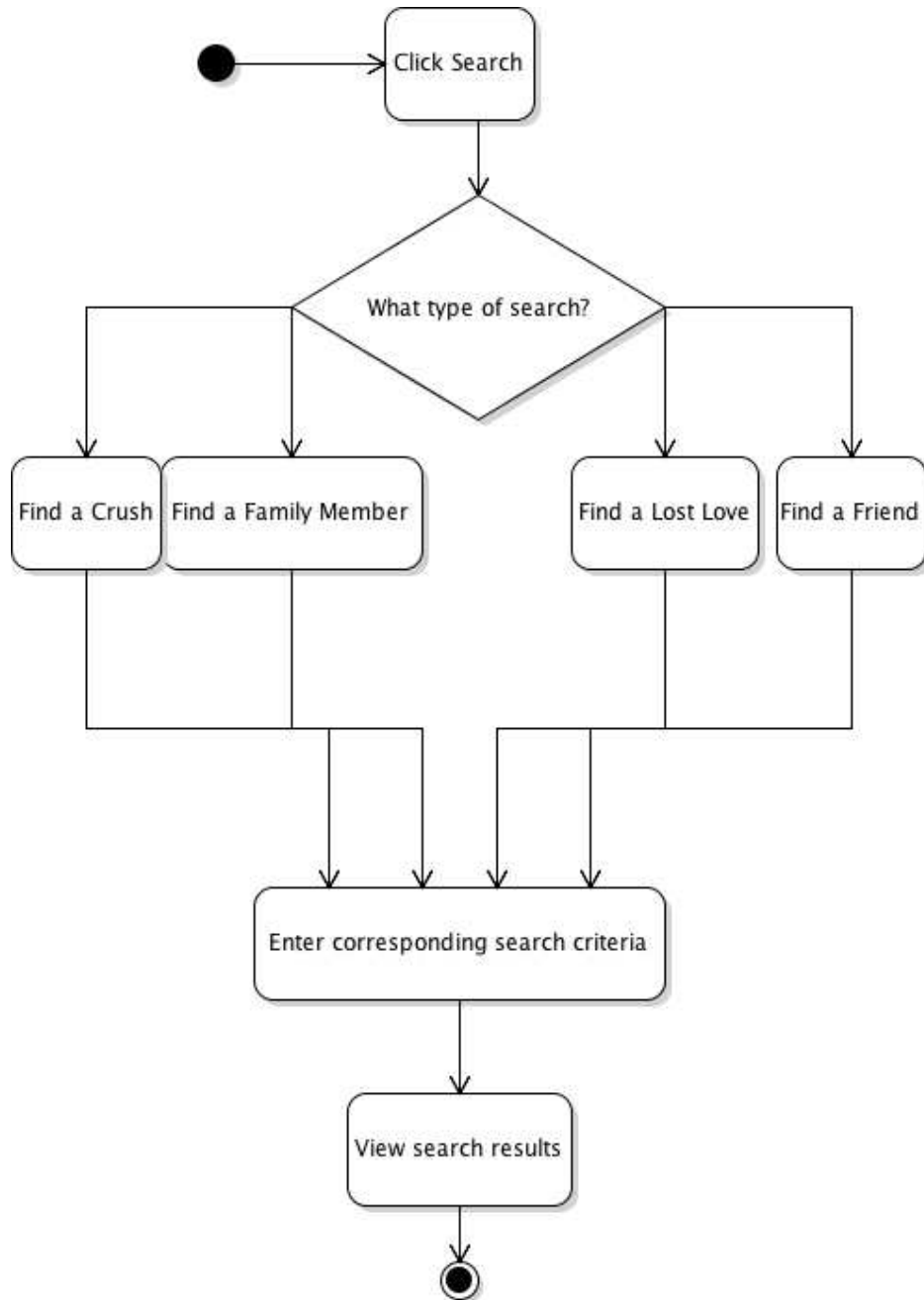
- ⇒ All Groups, All Members – Meetings TBD
- ⇒ Separate Groups, All Members – Meetings TBD
- ⇒ Separate Groups, Graduate Students Only – Meetings TBD
- ⇒ All Graduate Students, All Groups – Meetings TBD
- ⇒ Communications Director, Select Students (*for Makeup Work*) – Meetings TBD
- ⇒ Architects, Professor Jonas – Meetings TBD

Front-End (GUI) Team Input on Me&You – Week 1

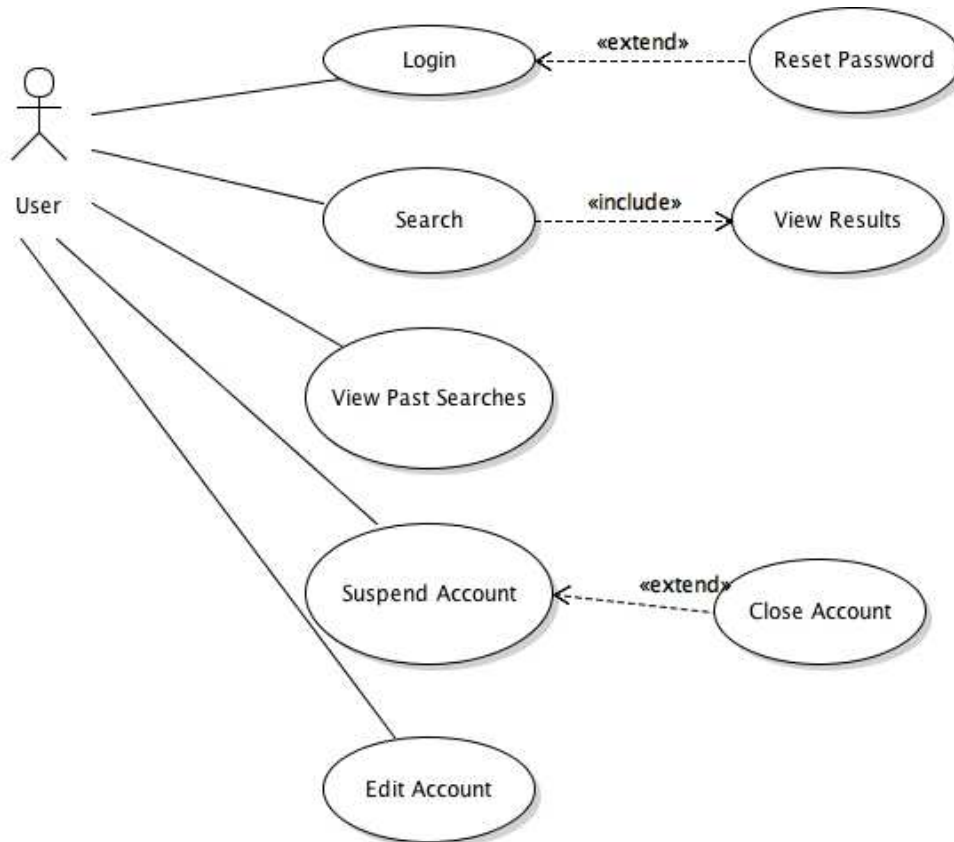
- Aesthetics
 - Consider color scheme – red, pink, white
 - Consider logo redesign
 - Retro 8-bit graphics appear dated, arguably nostalgic.
- Home Page
 - Matching Statistics (represented as ticker)
 - Number of relationships rekindled
 - Number of crushes matched
 - Number of family members found/reunited
 - Number of friends found/reunited
 - Testimonials
 - Cute, inspiring stories of success through Me&You
- Login Page
 - Provide ‘Forgot Password?’ option (button)
 - Include a ‘New User?’ link (button) to registration site
- Account Settings
 - Include capacity to suspend or inactivate account with ability to reactivate the account at a later time.
 - Going a step further and including an option to delete an account may be prudent.
 - Notification Settings
 - Provide user with multiple notification update options
 - Email
 - Text
 - Tweet
 - Site Notification
 - None – manage notifications from Dashboard
- Registration
 - Data validation on form input
 - No strings in strictly numerical fields
 - Reference user database for potentially duplicitous accounts
 - Require *Captchaesque* challenge-response test to avoid bot created accounts
 - Form prediction for common items
- Monetization
 - Advertising
 - Banner ads
 - Membership
 - Premium features
 - Ad-Free

- Dashboard
 - Transition from tab-based/dropdown navigation to button-based layout.
 - For instance, with searching: You could use the logos from the About Us page (Flowers – Long Lost Love, Shaking Hands – Friends, People Avatars – Family, Heart – Crush).
 - Posting
 - How to Manage?
 - Timeline
 - Content
 - Posts
 - Photos
 - Videos
- Profile
 - Basic Information
 - Photo
 - Screening Profile (user-determined level of privacy/comfort)
- Search Results
 - Screening Profile – To confirm whether or not the search algorithm identified the correct person.
 - Short Bio of Potential Match
- Help
 - Add FAQ Section
 - Add Contact Us Page
 - Email
 - Phone Number
 - Twitter Account
 - Proprietary Chat

UML Diagrams – Week 2



UML Diagrams – Week 2



REQUIREMENTS ELICITATION AND ANALYSIS

- Data
 - No Short-Lived data
- Access Control
 - Database through Rules / Policy
 - Front-end (GUI) through Forms
- We would be procedure driven
 - Users interact with system
 - Control Flows
- Cross Browser Compatibility
- Navigation is across the top
- Potential to translate into another language
- Hardware must allow us to serve the goal of twenty thousand users.
- Keep the project within budget.
- Once the prototype is completed the server will be shutdown.

SYSTEM AND OBJECT DESIGN

System Design

- Hardware Mapping
 - Power Blade 510
 - 2x Xeon Processors
 - 64GB of RAM
 - Runs Windows Server 2008 R2 Natively
 - Operating System: To Be Determined...
 - Linux VPS?
 - Windows Server VPS? (*Last year's class used Windows Server*)
- Ideally to deploy at scale we would implement utilizing a Platform as a Service (PAAS) for the Website, which comprises the front-end of the system including the Graphical User Interface (GUI). This will allow for meeting growing demand and increased market share.

Object Design

- Revise Front page gallery
- Interface Refresh
 - Increase Resolution of icons
 - Color palette
 - Warmer Colors: Red, Pink, White?
 - What are the meanings of the colors? How can they be used to invoke emotions and thoughts?
- In case of failure
 - Redirect to boilerplate error page
 - Failed Search
 - Status Page - update statistics or count on database?
- Interface Tweaks
 - Skeleton for all the pages
 - Site Map
 - Remove stock texts
 - Take out descriptions of different services.
 - Logo redesign – only if the png is available
 - Warmer, Redder colors
 - Space stuff out more – Gallery
 - Larger Icons on Services
- Error Page
 - Search timeout page – if search doesn't return

IMPLEMENTATION AND TESTING

Implementation

- HTML with CSS / PHP to MySQL
- C# Engine
- Database will be loaded with SQL files created on User PCs

Testing

- Stress Testing with multiple testers simultaneously submitting searches, requesting results, and loading various pages simultaneously.
- Volume Testing the interface by entering large amounts of data in various data types into any and all user entry fields and see if the system responds properly. Afterwards, we'll try the opposite and enter no data in fields and insure the front end displays an error when necessary.
- Security testing will involve checking the new user registration system and the returning user login page to insure authorization is only given to valid users. Furthermore, that users are not given access to other user's data. We also will check the search function and verify that its only showing the specified data listed in the requirements of the matches found.
- Recovery tests check to see how the system responds to the user when various errors are encountered.
- The project will consist of three revisions of the prototype, these will in an essence be act as beta versions of the system as a whole.

PROJECT AND CONFIGURATION MANAGEMENT

Project Management

- The Project Manager is Professor Jonas
- Task Plan, Schedule, Budget, Organization, and Project Environment will be defined.
 - **Stage I: Project Initiation Process**
 - Schedule is in syllabus.
 - Who develops the schedule?
 - Professor Jonas?
 - Budget is \$0.
 - Organization – org chart that we made. Master Documents.
 - Develop Project Standards
 - Assign Communication Infrastructure
 - E-mail – to send files.
 - Meet in Class – Every Week on Wednesday from 5:31PM to 8:30PM
 - Slack – to share text conversations without voice / video conversations
 - Zoom Meetings
 - Skype for Business
 - Blogs – Wiki Journal Entries for Graduate Students
 - Setup Meeting & Reporting Procedures
 - Template for Meeting Minutes
 - Template for Graduate Student Logs
 - Template for Master Documents and other forms of documentation.
 - Development Methodology and Development Tools
 - **Stage II: Project Monitoring and Control Process**
 - Ensures that project is executed per the task plan and budget.
 - If the Project Manager deviates from the Schedule, resources will be re-appropriated or the schedule will be re-planned.
 - The software project management plan (PMP) is updated to reflect any of the changes above.
 - **Stage III: Software Quality Management Process**
 - Ensures that the system under construction follows the required quality standards.
 - A separate Quality Management team executes this process to avoid conflicts of interest.

Configuration Management Process – focuses on tracking and control of work products

- Items under configuration management include source control, development models, software development plan, and all documents visible to the project participants.
- 1st Function of configuration management is the identification of configuration items.
 - Which subsystems are likely to change?
 - Which subsystem interfaces should not change?
 - Each subsystem likely to change is modeled as a configuration item, and its state labeled with a version number.
- 2nd Function: Manage Change through a Formal Process
 - Change Request is first logged, and then analyzed, then accepted if consistent with the goals of the project
 - The change is then approved or rejected depending upon the forcing impact of the change on the overall system
- 3rd Function: Record sufficient status information on each version of each configuration item and its dependencies.

INFRASTRUCTURE MAINTENANCE

- Documentation
 - Update working documentation with Quality Assurance so that next year's class or a graduate student for a Master's Project can pick up the project and launch it with our recommendations to scale up to millions or billions of users (in the cloud).
 - Usability to the End User / Other Actors – Quality Assurance
 - User Experience Testing (*next year*)
 - Incorporating Marketing / Business Plan with Existing Website (*next year*)
 - Revise UML Diagrams
 - Update Use Case Diagrams
 - Update Flow Diagram
 - Site Map Diagram
- Little to no additional maintenance or capital expenditures. We are just building a prototype.
- Ideally to deploy at scale we would implement utilizing a Platform as a Service (PAAS) for the Website, which comprises the front-end of the system including the Graphical User Interface (GUI). This will allow for meeting growing demand and increased market share with little to none additional maintenance or capital expenditures.
- For the Prototype, we will utilize an in-house Dell Power Blade 510 server with dual Intel Xeon processors and 64GB of Memory, which will allow us to serve the goal of twenty thousand users and keep the project within budget.
- Once the prototype is completed the server will be shutdown.

SYSTEM DEPLOYMENT TO THE END USER

- We are building a prototype; therefore, we are not actually deploying the system to the end user.
- Next year's class, or a graduate student for a Master's Project, will be launching the project through integration of the existing platform with cloud infrastructure, such as Amazon AWS or Azure.

Week 5

Patrick R. McElhiney has not received anything from Week 5 from Front-end (GUI). Please send all your working materials, and their progress, to pr22@wildcats.unh.edu

Week 6

Patrick R. McElhiney has not received anything from Week 6 from Front-end (GUI). Please send all your working materials, and their progress, to pr22@wildcats.unh.edu

Week 7

Privacy Policy – disable caching, assume user is on public computer.

Need to get the number of maximum allowable characters from Database for the Forms verification.

Don't allow empty or incomplete searches to pass through Forms into the database.

- Have multiple layers of security, including JavaScript verification, and PHP field verification.

Limit on # of searches able to perform within a specified time limit?

All user attributes can be entered onto one page, and the user can just click "Save" to save their settings.

- Be sure it's explained that the user must press Save, or otherwise the settings changes will be lost.

User Registration Page in which the Administrator can define the template of required and optional fields for registration.

- User is required to fill out a minimum number of fields to search for Crush
- Separate number of required fields to search for Long Lost Love, etc.

When there is an error in a form and the user must go back to filling it out, make sure all the previously entered data is still in the form fields

- Could make it a streaming process through JavaScript, which could update the fields and save them when necessary, while not interrupting the use.

Ability for Administrator to be able to specify which fields apply or are required to a specific match, and which do not.

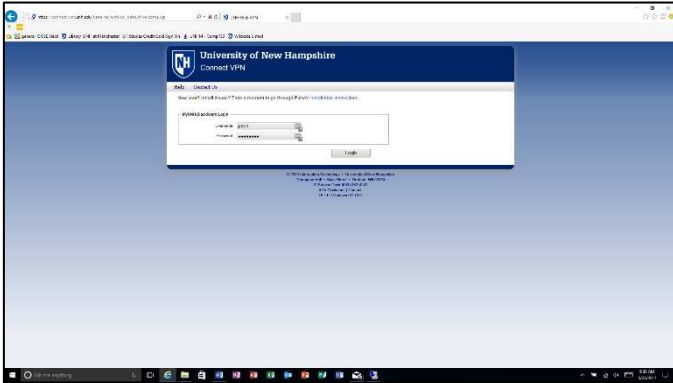
Create template files for deliverables / site pages, such as Content, Site Map, 404 Error Message, etc.

Don't allow unfinished search requests to be submitted to the engine and/or the front-end.

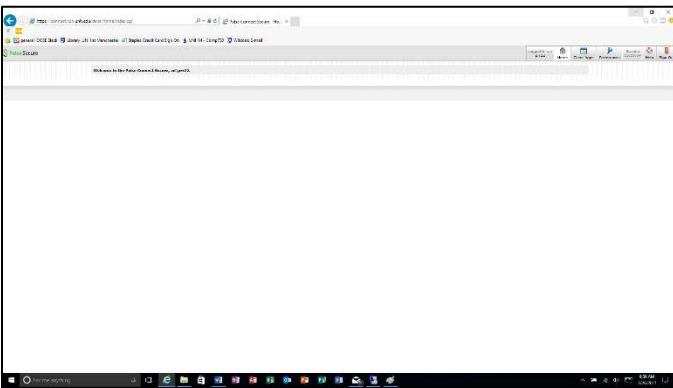
Ability to add different profiles for search types, and have the show up and/or disappear at different times based on their icon, of whether they are displayed on the front-end.

Drop-down menus for selecting max length and other properties in Administration panel.

Connecting to Server (Week 7)



← connect.vpn.unh.edu



← VPN Connected Screen



RDP → lamp.unh.edu

Computer: 132.177.188.84

User name: Administrator

Password: mj.US730

You can also try connecting through Parallels or Cord.

Sitemap (Week 8)

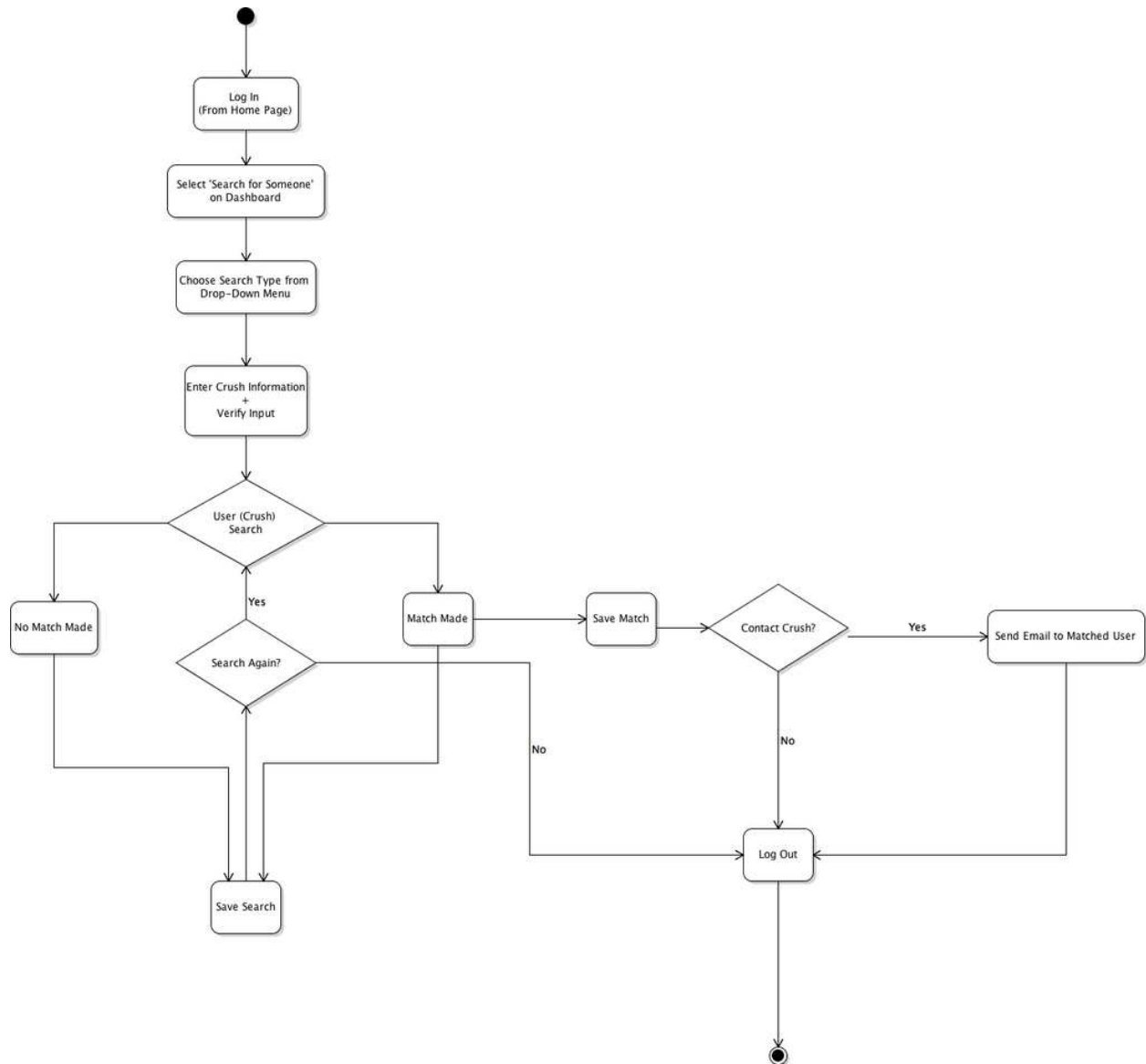
Demo Sitemap

- About Us
- Register
- Account
- Account Edit
- My Dashboard
- Index
- Login
- Matches

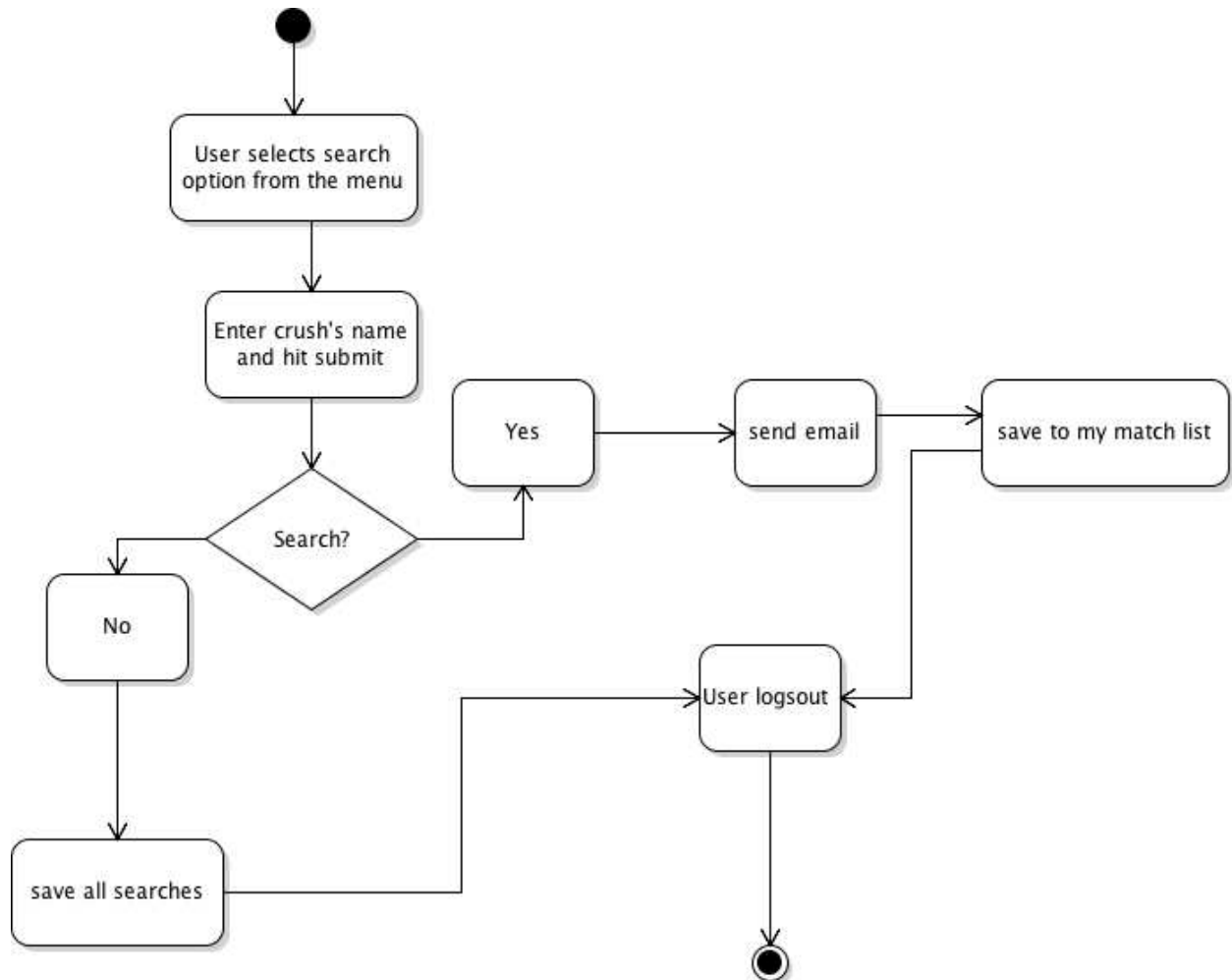
Pages to Add

- Administrator Page
- Forgot Password Page

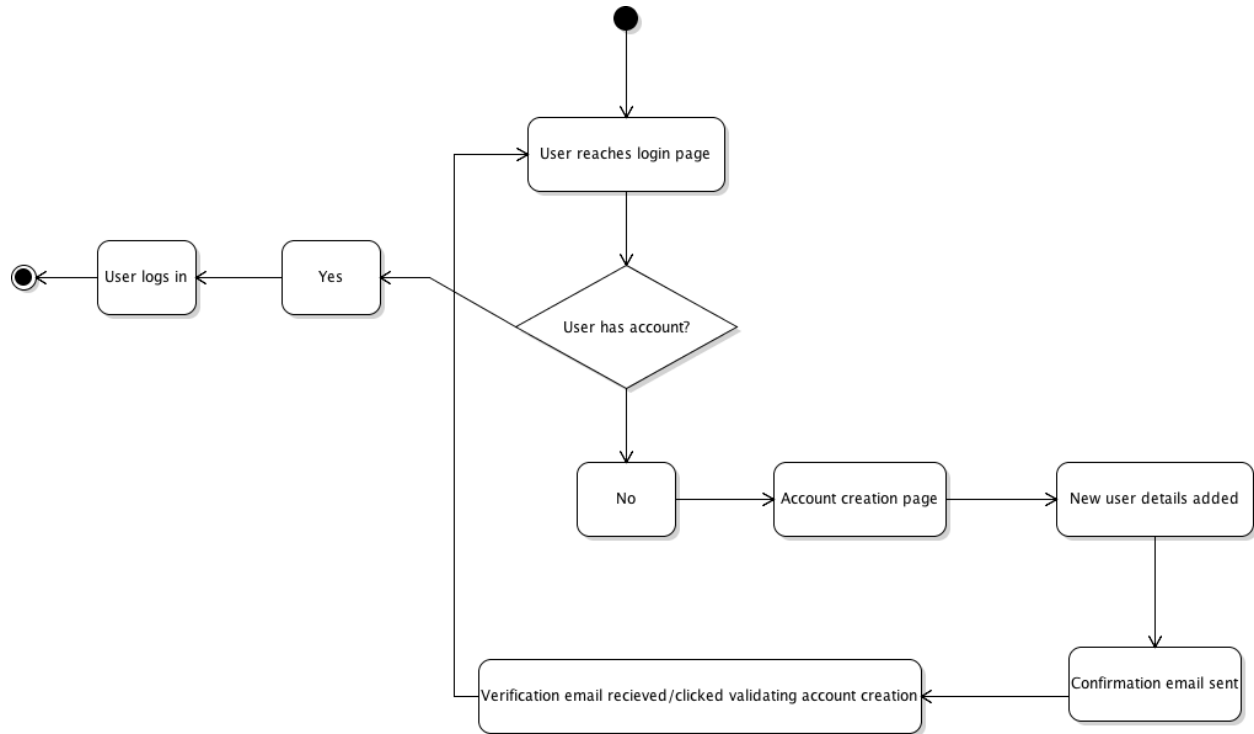
UML Diagrams – New Search (Week 8)



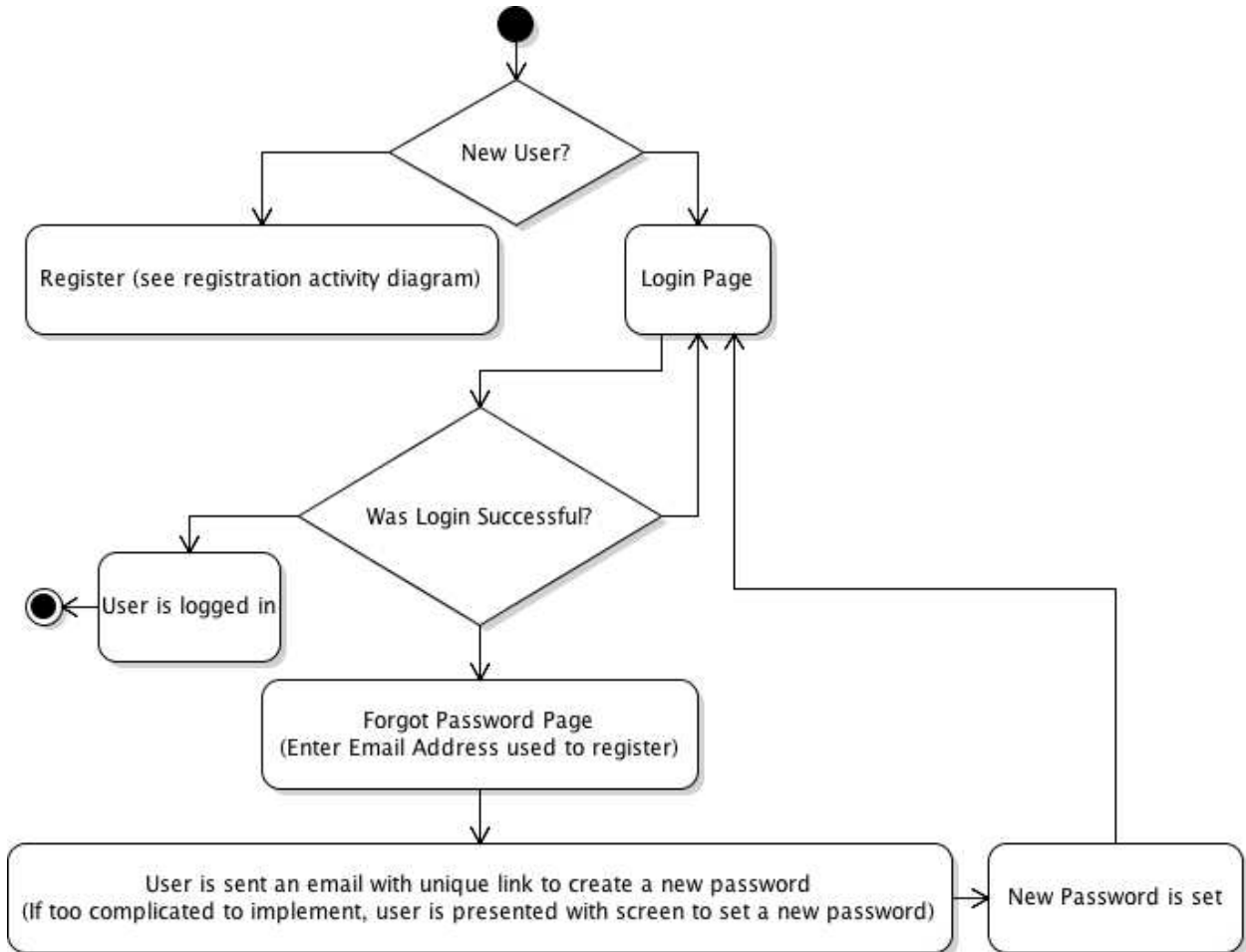
UML Diagrams – View Result (Week 8)



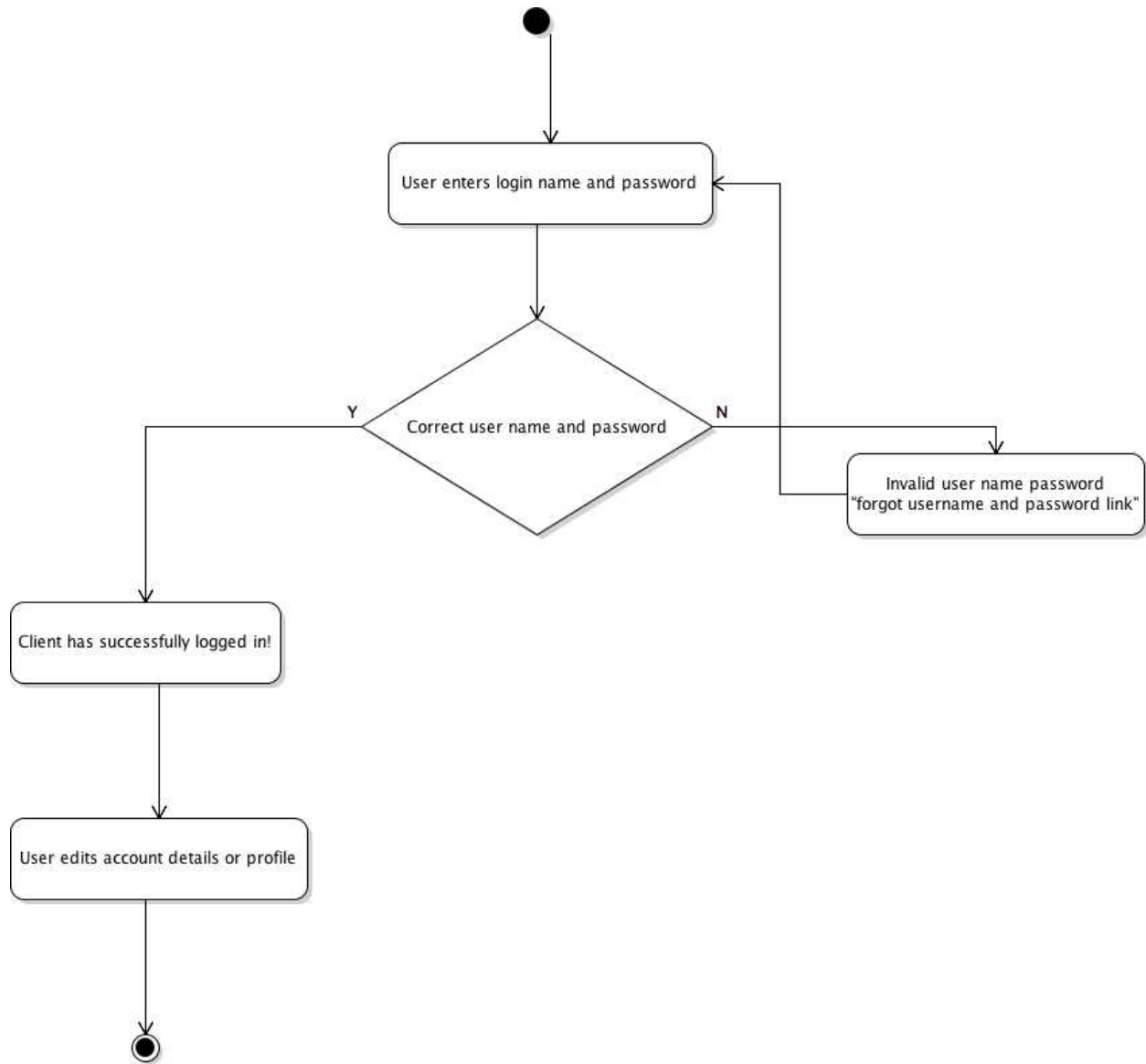
UML Diagrams – User Registration (Week 8)



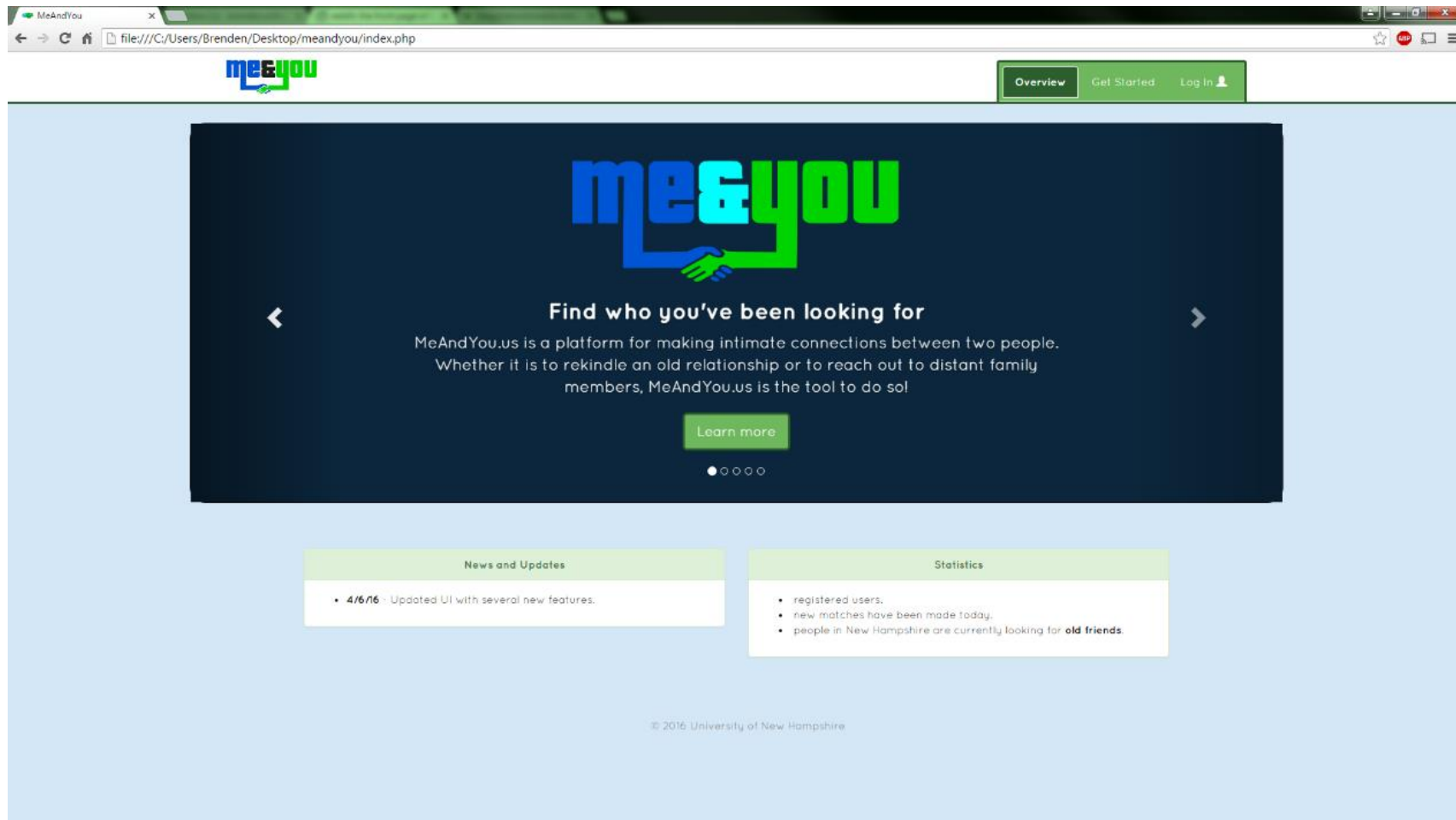
UML Diagrams – Login Help (Week 8)



UML Diagrams – Edit Account (Week 8)

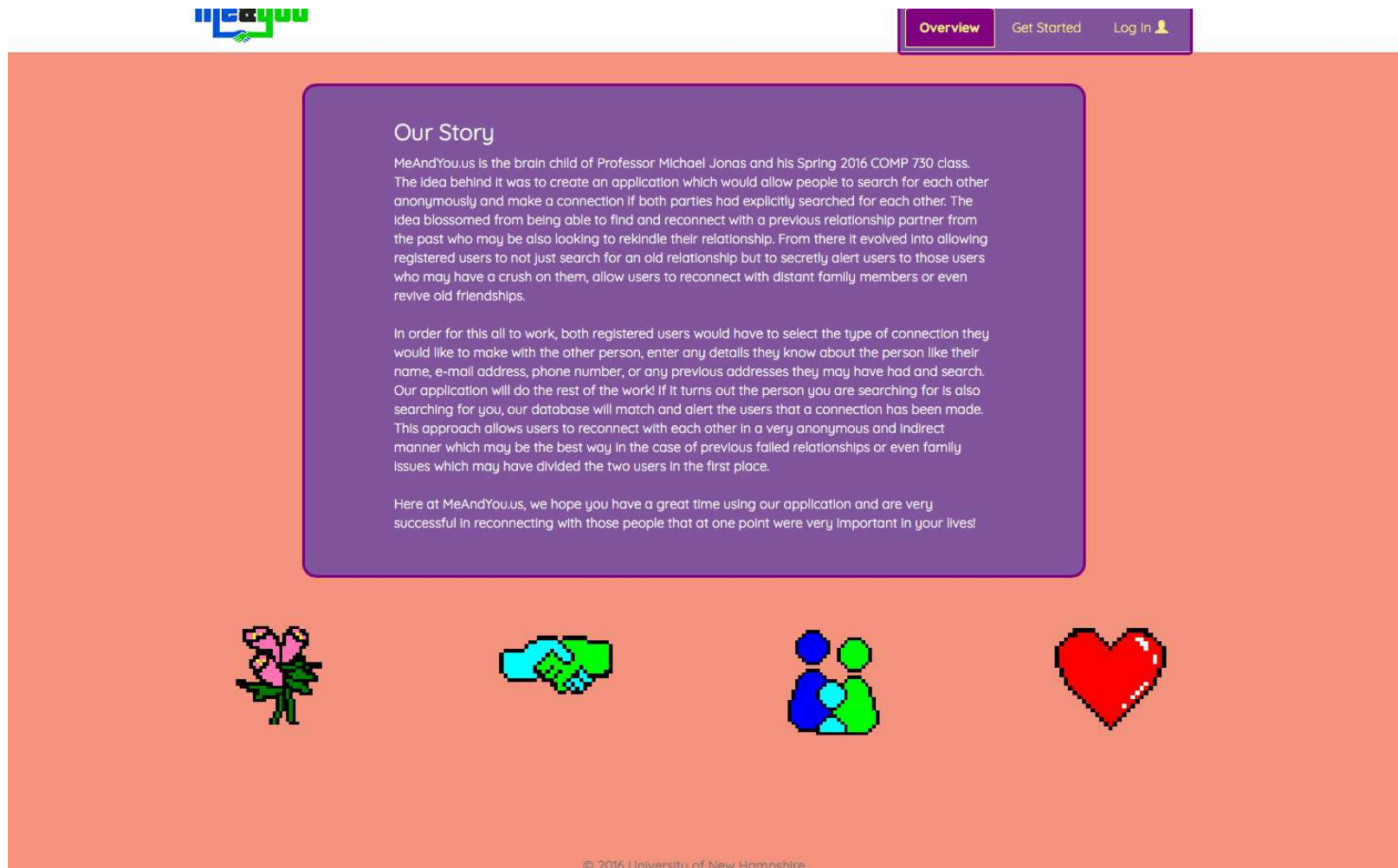


Color Scheme Selection (Week 8)



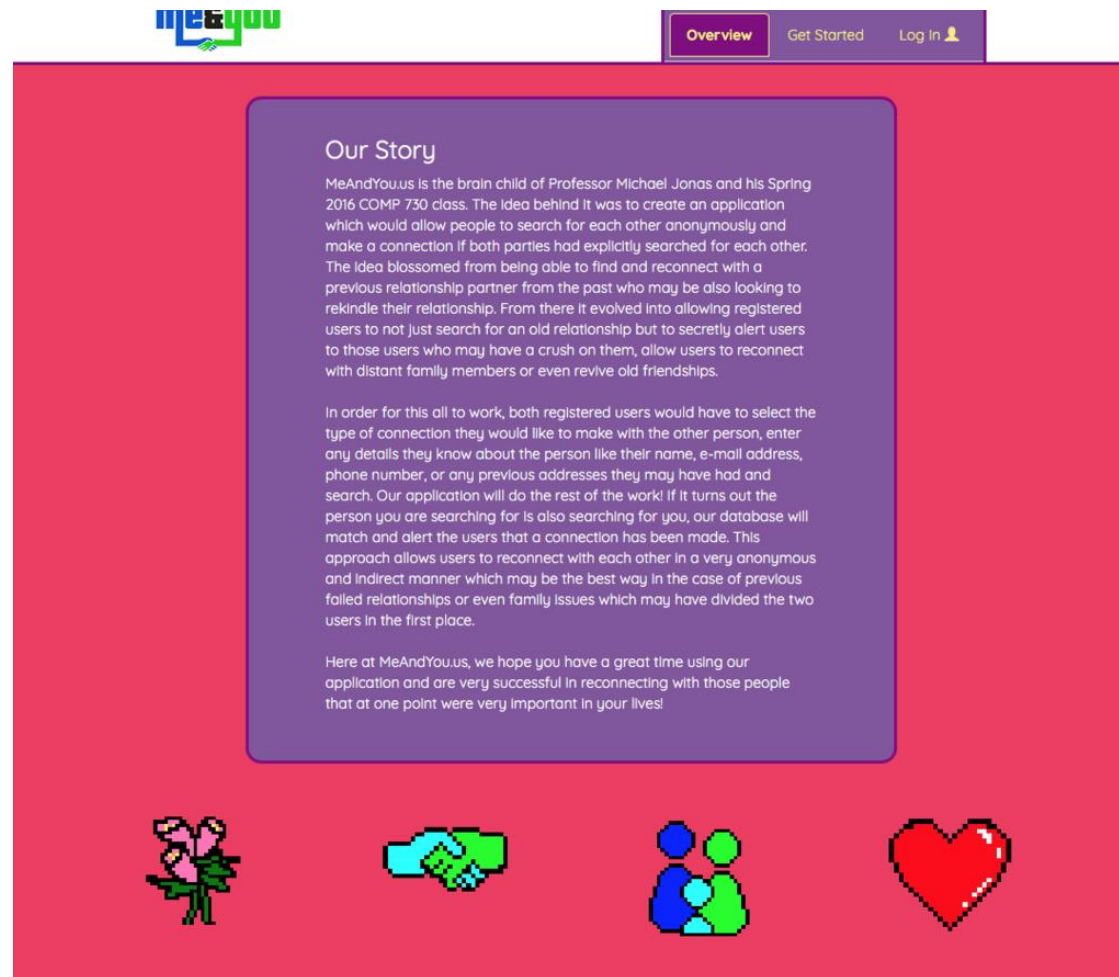
Old Color Scheme. [REDACTED], Patrick McElhiney want this color scheme to stay.

Color Scheme Selection (Week 8)



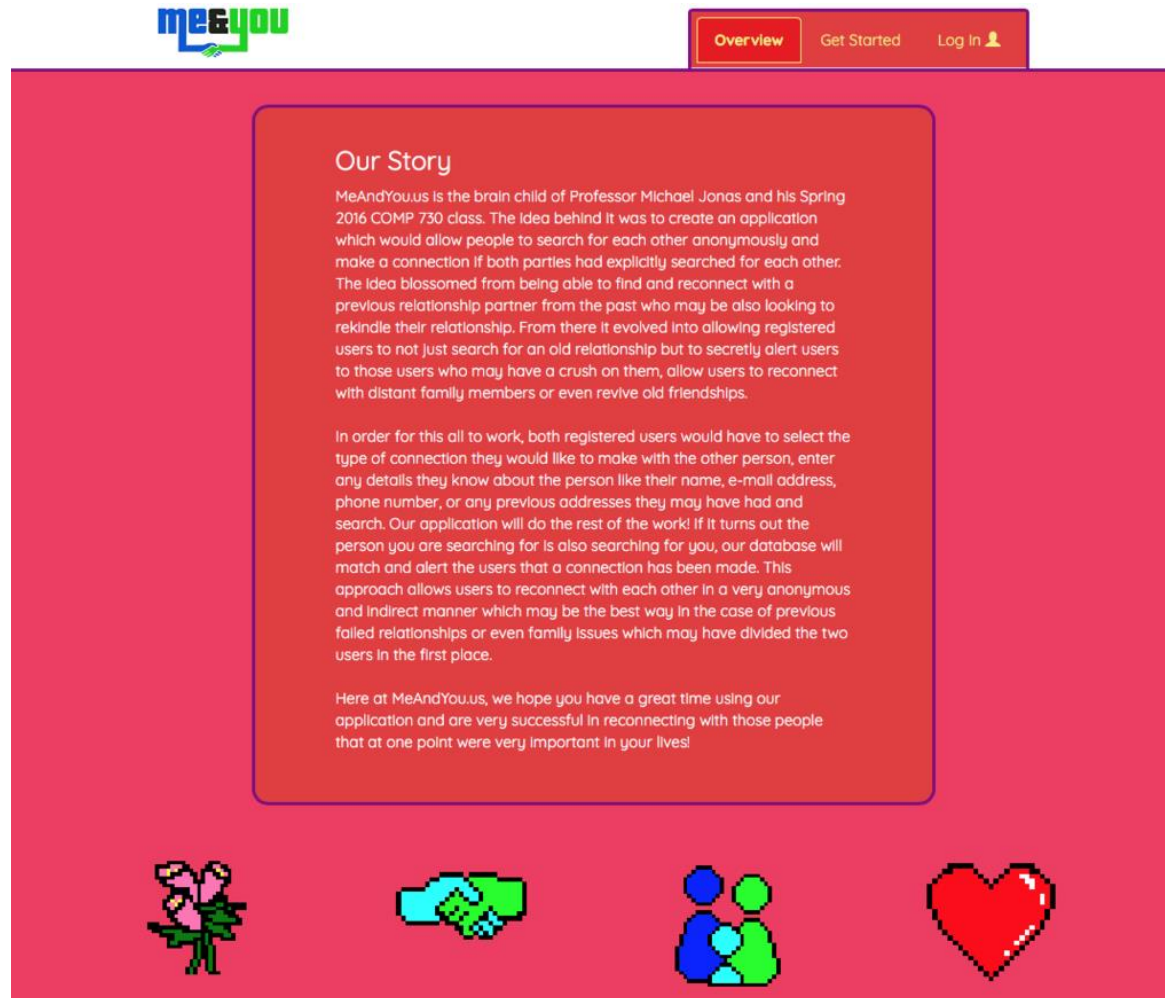
didn't like this color scheme.

Color Scheme Selection (Week 8)



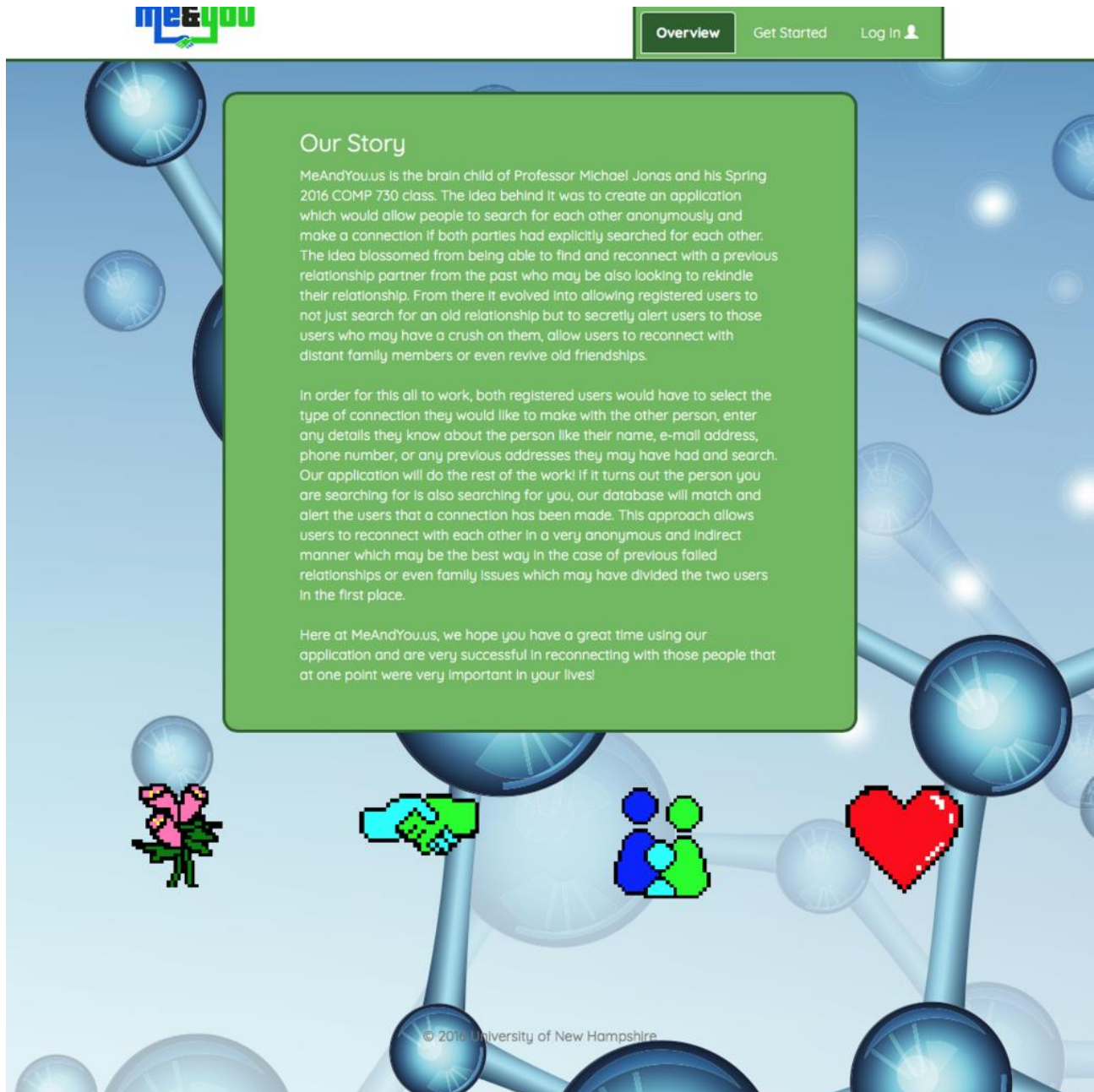
Dark Pink & Purple. [REDACTED] didn't like this color scheme.

Color Scheme Selection (Week 8)

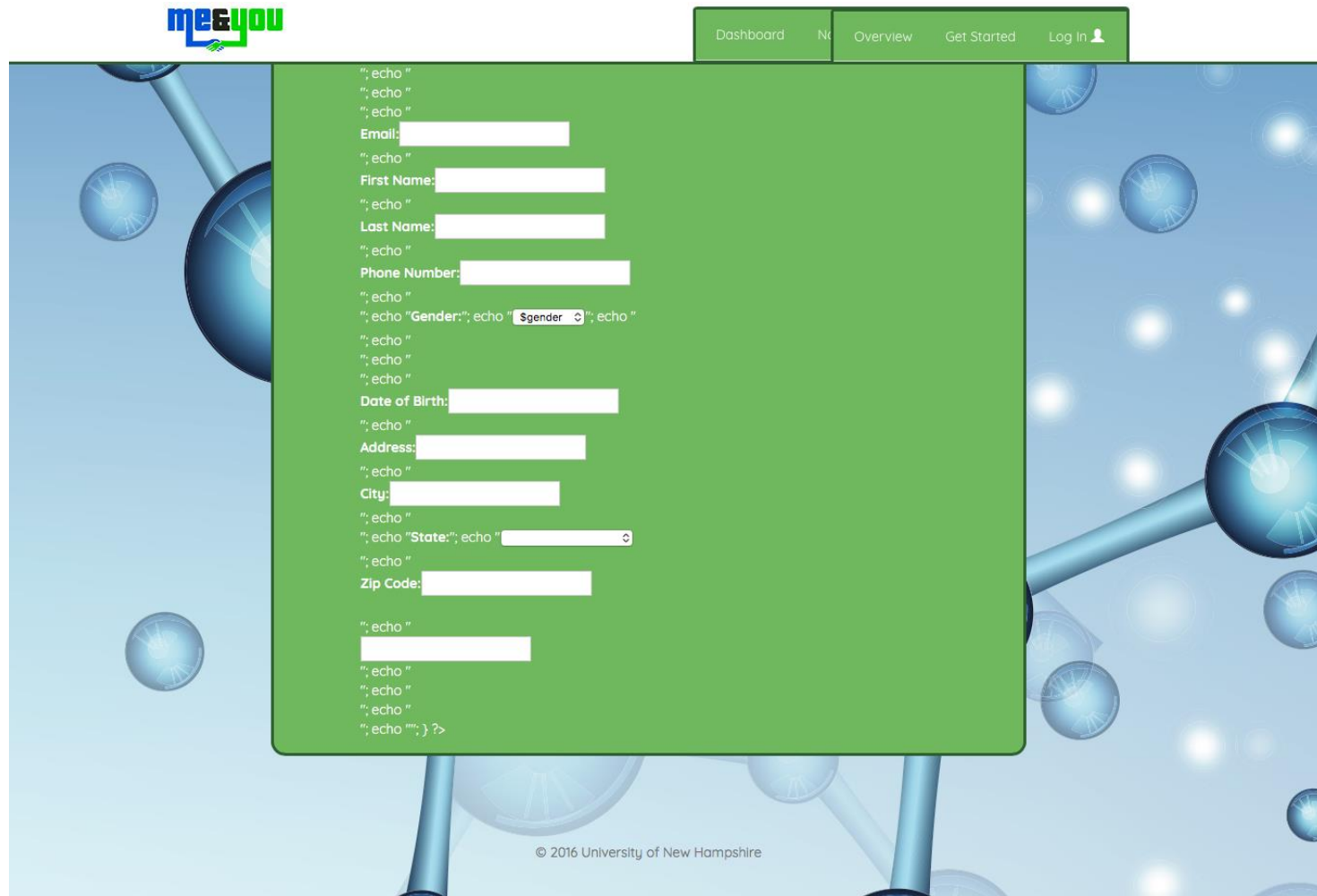


Dark Pink & Red. [REDACTED] didn't like this color scheme.

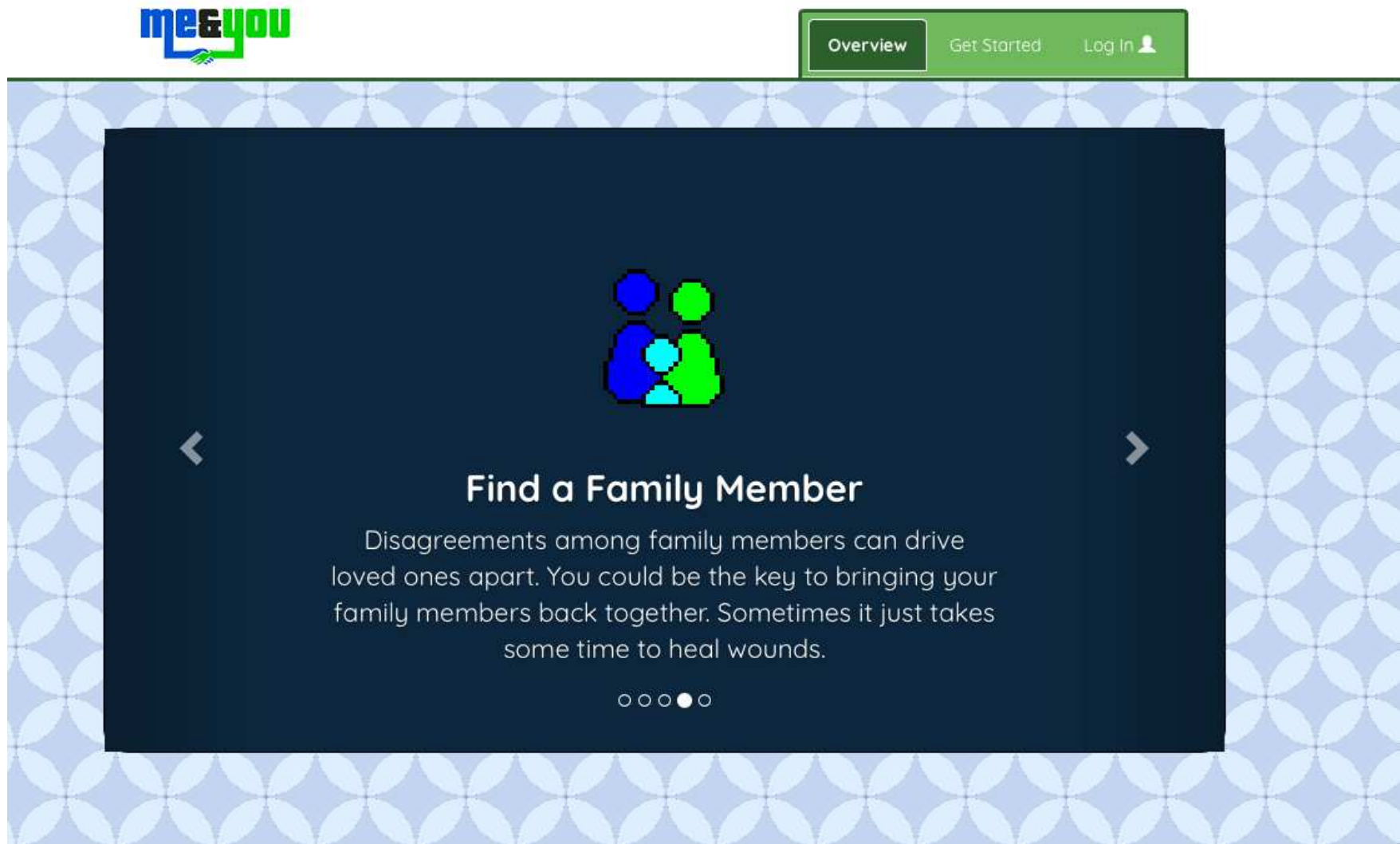
Color Scheme Selection (Week 8)



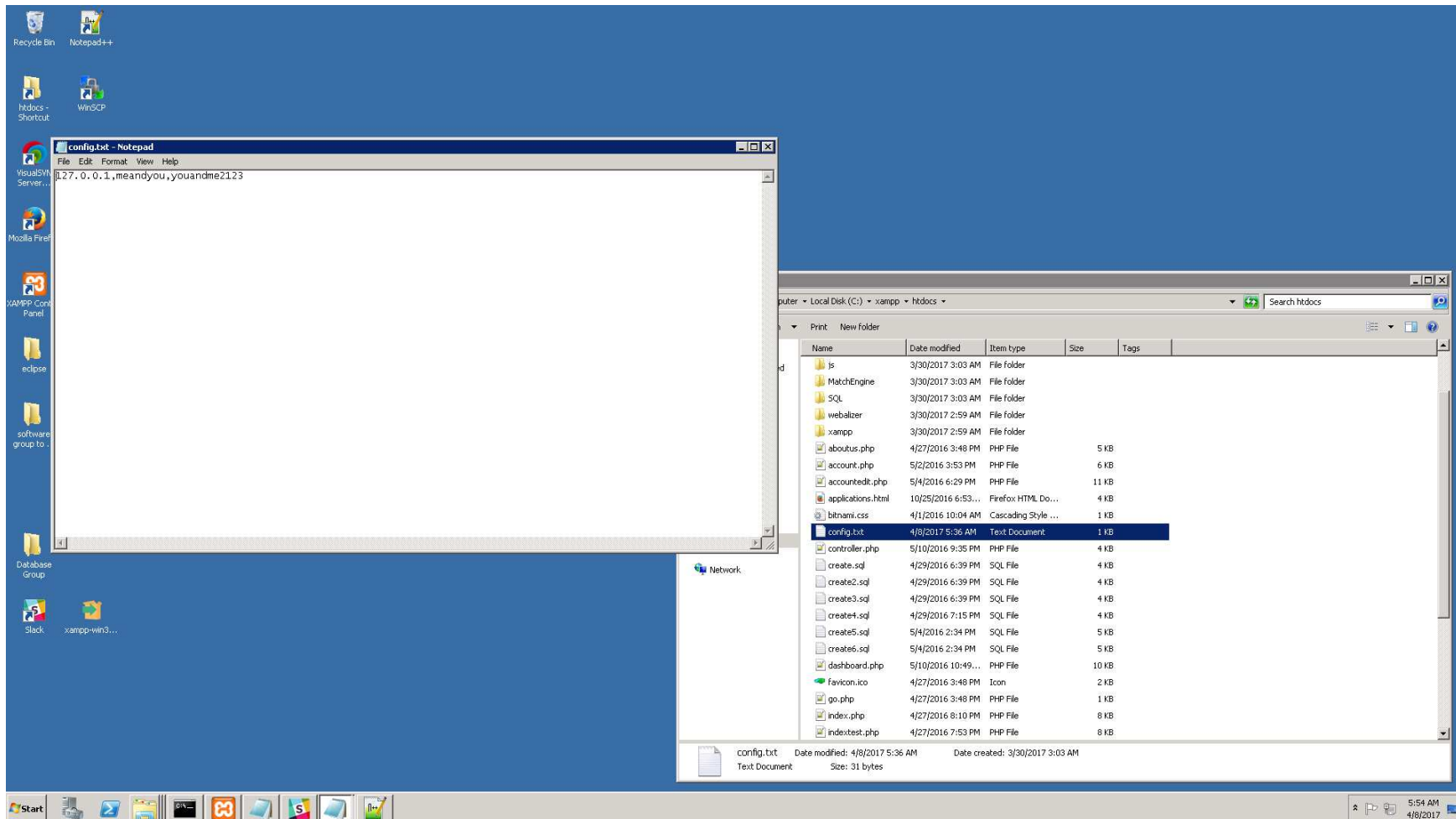
Color Scheme Selection (Week 8)



Color Scheme Selection (Week 8)



Front-End Security (Week 8)



Configuration of **Demo** in C:\xampp\htdocs\config.txt
Front-End needs to unlink the config.txt for security purposes - because anyone could see the way to log in to the server.

List of Things That Work (Week 8)

1. Homepage
2. Login Page
3. Registration Page
4. Update Profile Page

List of Things That Don't Work (Week 8)

1. **Header**
It doesn't link to the homepage on the logo.
2. **View Matches**
It displays nothing.
3. **Manage Searches**
There's 3 dots under "Manage Searches".
4. **Crush Search**
It blinked to a page that had a SQL insert statement.
5. **Notifications**
The site says "You don't have any recent notifications." However, on the toolbar, it says there are 2 notifications for the user that he logged in with.
6. **Statistics**
They are currently hard-coded in.

Icons & Logo (Week 9)



Love



Friends



Family



Crush



Me & You Logo

Forgot Password Page (Week 9)

me&you

Overview Get Started Log In

Forgot Password

Enter Your Email:

Submit Email

Security Question:

Enter the Answer:

Submit Answer

Enter your new password:

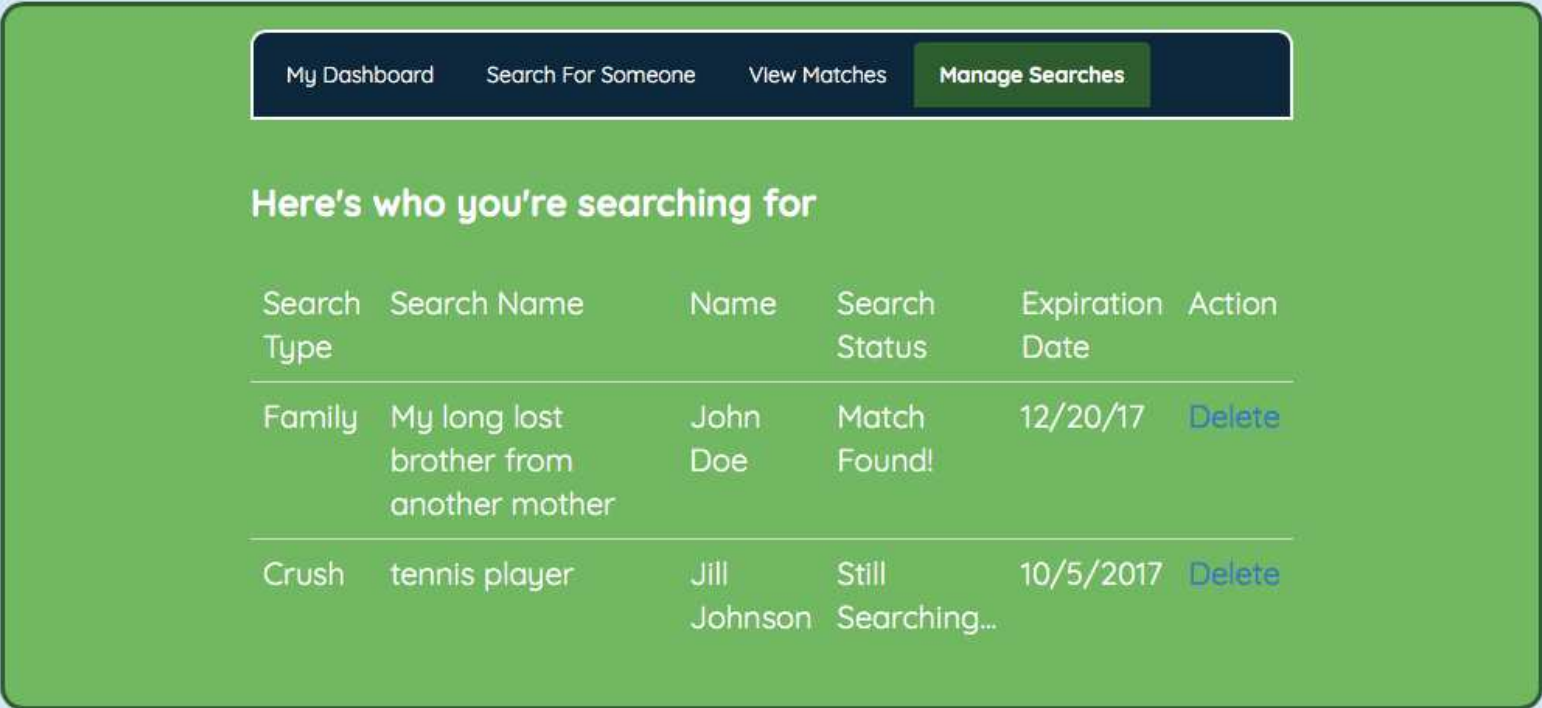
Verify your new password:

Set New Password

© 2016 University

Forgot Password Page Mock-Up

Manage Searches Page (Week 10)



Search Type	Search Name	Name	Search Status	Expiration Date	Action
Family	My long lost brother from another mother	John Doe	Match Found!	12/20/17	Delete
Crush	tennis player	Jill Johnson	Still Searching...	10/5/2017	Delete

This is a mock-up page by [REDACTED] that shows how the various searches will appear on the GUI.

Security Questions (Week 10)

1. In what town/city was your elementary/primary school?
2. What is your favorite food?
3. What was the name of your first crush?

Logos (Week 10)

