

CS 467-400
Spring 2019
Team Errai

Create Project Plan

Errai Team Members

Andrea Dias	diasan@oregonstate.edu
Arthur Liou	lioua@oregonstate.edu
Sharaya Baker	bakersha@oregonstate.edu

Assignment Prompt: To earn full credit for this assignment, please submit a PDF that clearly includes the following items:

- A description of what your program does from the user's perspective.
- A description of your initial thoughts on the structure of the software.
- An initial listing of which software libraries, languages, APIs, development tools, servers, and other systems will be required to create and use the software.
- A thorough and complete description of what each Team member will be accomplishing, including who will produce each type of documentation needed (see the Mid-Point and Final Report assignments for more).
- A list that describes how much time each Team member will be spending on their portion of the project. The amount spent per Team member must be roughly equivalent, and should be at least 100 hours each. Expand the project accordingly to make the work amounts equivalent, and/or make sure the Project is sufficiently complex.
- At least two graphical examples that demonstrate a page, chart, board, level, flowchart, or layout.
- An introduction and a conclusion.
- Make sure the Dev Team name (e.g. "Alpha") is in the filename of the .PDF you submit and in the body of the Plan. Also include the Team member's names in the body of the Plan.
- Link to: [Sample Project Plan Reference](#)

Introduction

Our application is a portfolio website builder. They would be able to build and customize various components of their website to present a clean and professional portfolio they can show case for prospective employers. These components can be configured to display various items, such as a title, artwork/images, links (to Github / LinkedIn), descriptions and other text, etc.

Program Description: User Perspective

As a user, *Foliospace* is an online hosted application where I can build and customize my portfolio. I can add text, hyperlinks, my work, etc to my portfolio, and also add functionality and design to my website.

Program Description: Software Structure

Client

The instructor, Ryan Gambord, will be considered the client. The client's requirements will be outlined in the section below and based on those provided by team member, Arthur Liou, which were approved by the instructor.

Client Requirements

- As an application admin, I want to be able to see all users and their resulting portfolio websites. This will direct to www.foliospace.com/admin.
- As an application admin, I would like to be able to delete accounts and related info.
- As an application admin, I want users to be required to sign-up for the site with a username, password, first / last name, user type and email address
- As an application admin, I want usernames to be unique.
- As an application admin, I want users to login with their username and password to maintain security. Alternatively, we can use Facebook or Google email authentication.
- As an application admin, I want to limit single uploads to 20 MB.
- As an application admin, I want to limit the aggregate storage per user to 3 GB.
- As the end user, I would like to create an account so I can build my portfolio.
- As the end user, I would like to be the only person who can make edits to my portfolio (i.e., must login with my username / password).
- As the end user, when I first navigate to www.foliospace.com (sample domain URL), I will see a login page / section and be able to log into to my website builder dashboard.
- As the end user, I would like to see the final portfolio at www.foliospace.com/username
 - Side Note: since usernames will be unique, this will also by default have user's portfolio URLs be unique.
- As the end user, I would like to have a sign-up page where I can choose a username, password, and provide first / last name, user type, and email address.
- As the end user, I would like to be able to change the theme of my portfolio by choosing from a list of pre-built themes.
- As the end user, I would like to change the background image for my portfolio.
- As the end user, I would like to select a default font for my portfolio.
- As the end user, I would like to upload my resume and allow PDF downloads.
- As the end user, I would like to be able to add links to redirect to other pages, such as Github, LinkedIn, Behance.
- As the end user, I would like to be able to upload my work in bulk (i.e., select multiple files to upload in the same session).
- As the end user, I would like to update the text and images on my portfolio.

- As the end user, I want to be able to save any changes made to my portfolio and have them published at that time.
- As the end user, I would like to have a contact/about me page that contains a blurb about myself as well as my contact information.
- Stretch goal: As the end user, I would like to have analytics such as number of unique visitors, total site views, which of my pieces has the most views, and geography of viewers.
- Stretch goal: As the end user, I would like to have sub-pages that would showcase other work that I have done, ex. “My Photography” or “My Sculptures”.

Sources

- We will use our own projects/work in a sample portfolio and in any instructional material we create. Sources will be cited.

Initial List of Technologies

- Client/Front-End: HTML, CSS/Bootstrap, Javascript, React, Webpack
- Server: NodeJS/Express
- DB: Postgres
- Deployment: Heroku
- Development Tools / Libraries: Github/IDE, Docker, Yarn/NPM

Division of Labor

Here's the generalized areas of focus each member of the team will be tasked with. They will also be responsible for the documentation of their respective part of the architecture. Each team member will be responsible for utilizing Github, reviewing / commenting on Pull Requests, and assisting on each other's sections as needed.

- Client / Front-End: Arthur
- Server: Sharaya
- Database / Deployment: Andrea

By Week:

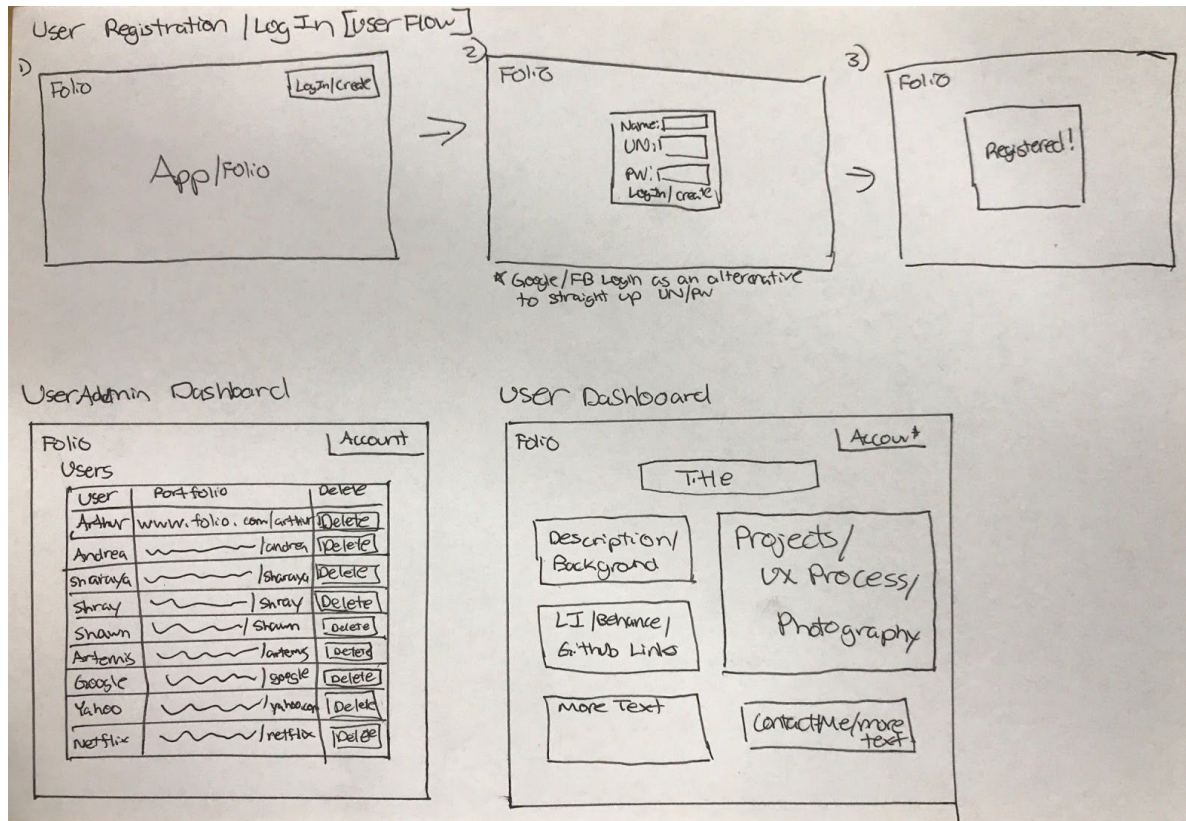
	Team Member / Task	Time Estimate
Week 3	Arthur: Setup endpoints for UserAdmin Registration/Login, Admin dashboard. Github Org / Project Setup. Sharaya: Server Setup / Authentication Andrea: Design and setup DB Schema	Arthur: 12 Sharaya: 12 Andrea: 12
Week 4	Arthur: Set up User registration/login, and template for user “building” dashboard Sharaya: Server Setup / Authentication Andrea: Design DB Schema	Arthur: 12 Sharaya: 12 Andrea: 12
Week 5	Arthur: Default static layout, design and pre-configure the	Arthur: 15

	<p>components that will be available to users. Examples: links, text, images, contact me, upload button.</p> <p>Sharaya: Admin functionality / Upload to DB</p> <p>Andrea: Work with Sharaya on Server-DB Interaction</p>	<p>Sharaya: 15</p> <p>Andrea: 15</p>
Week 6	<p>Arthur: Default static layout, design and pre-configure the components that will be available to users. Examples: links, text, images, contact me, upload button.</p> <p>Sharaya: User functionality (server)</p> <p>Andrea: User experience testing on 5 different test subjects.</p> <p>All: Add Documentation for Mid-Point Project Check</p>	<p>Arthur: 15</p> <p>Sharaya: 15</p> <p>Andrea: 15</p>
Week 7	<p>Arthur: Allow users to add/edit/update/remove each type of component in their portfolio.</p> <p>Sharaya: User functionality (server)</p> <p>Andrea: Helping Arthur with the user experience feedback changes/updates.</p>	<p>Arthur: 15</p> <p>Sharaya: 15</p> <p>Andrea: 15</p>
Week 8	<p>Arthur: Allow users to add/edit/update/remove each type of component in their portfolio, configure components/layouts based on Andrea's user experience feedback</p> <p>Sharaya: Server security / middleware</p> <p>Andrea: Deployment</p>	<p>Arthur: 15</p> <p>Sharaya: 15</p> <p>Andrea: 15</p>
Week 9	All: Integration Testing, categorize and fix high priority bugs and updates from testing	Each member: 10
Week 10	All: Final Report Input , Demo File Submission, Create Video Demo Submission	Each member: 6

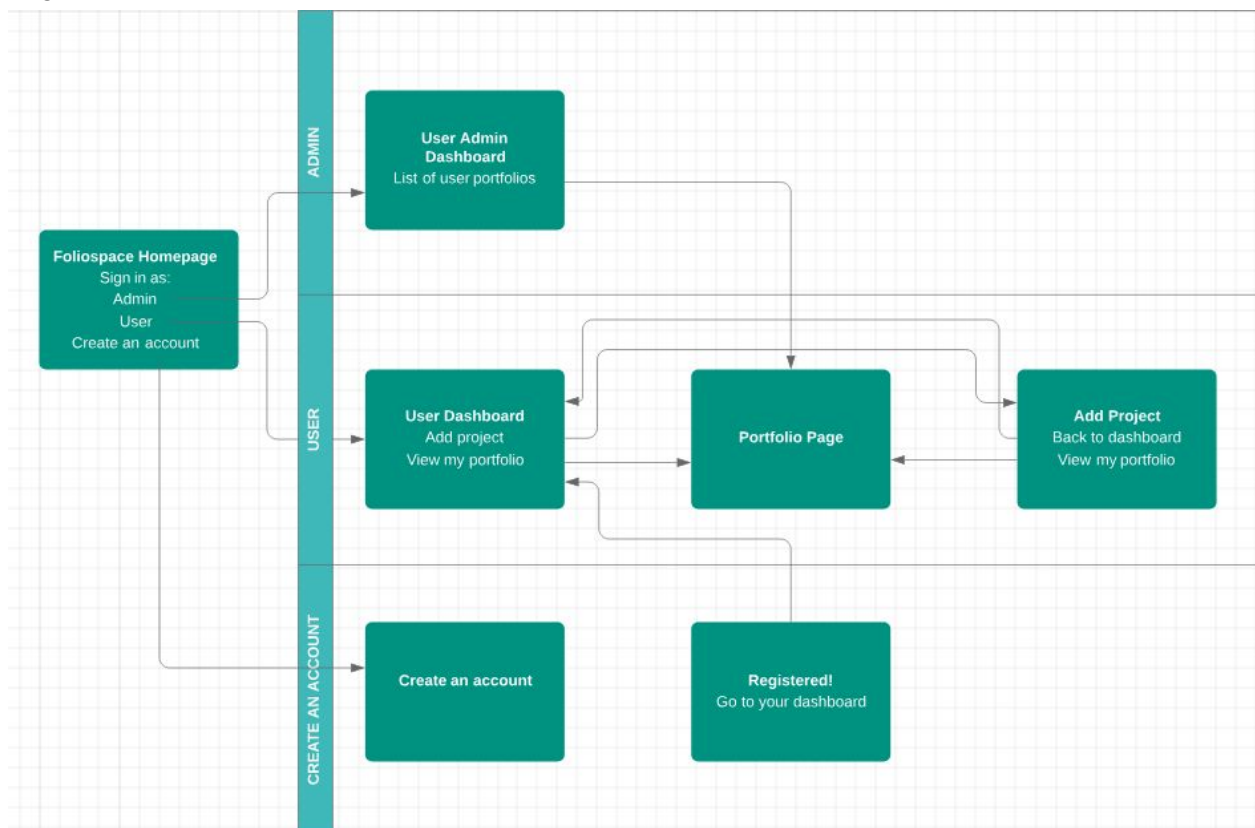
Graphical Examples

Page Layouts:

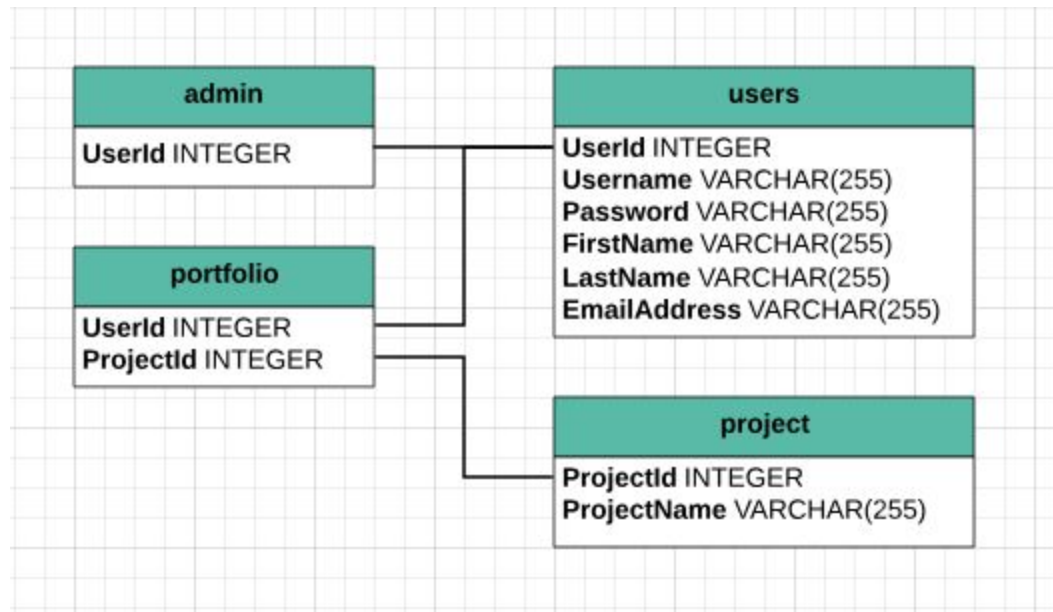
- Top Row: User Flow of how user registration / login is shaped from hitting the home page, to getting the registration/login form, then a "Registered!" confirmation
- Bottom Left: A prototype of how the UserAdmin dashboard would look like, with the ability to see users, their portfolio URL, and a delete option.
- Bottom Middle: A prototype of how the User Dashboard may look like, where if the user clicked on a section, they can edit / update / add / remove the component to their liking.



Page Map:



Rough Draft of Database Schema:



Conclusion:

The Errai team is seeking to create a website-builder application that will allow users to create and customize their portfolios. The project should take no less than 300 hours to complete and should be completed on schedule.