

ECE 458: Engineering Software For Maintainability
Senior Design Course
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Evolution 2 Analysis

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1 Previous Design Analysis

2 Current Design Evaluation

3 Future Design Needs

4 Design Process Notes

This section of the document describes experiences regarding the design and testing process for each member of the team. These experiences include analyzing data, design processes, and team management.

4.1 Designed and Conducted Experiment

Jeff's Contribution

One key front end aspect that we wanted to add to our web application in Evolution 2 was popup forms and views. As a team, we agreed that these types of views would not only would to a more fluid user experience, but generally look more modern. In order to implement these popup forms (along with other various UI features), we added a Rails Gemfile called Foundation. This Gemfile allows for easy inclusion of many jQuery elements in the views files of our Rails app. Using an aspect of Foundation called reveal-modal, I attempted to implement the form to create a new group into a popup window that would allow the user to create a new group without leaving the index page. I created the form and could submit without error, however the users were not being added to the group in the actual database. After, attempting to modifying aspects of the reveal-modal, I instead tried implementing my new group form in a simple rails view page instead of attempting to add dynamic popup views. When trying a normal form and realizing that the database was successfully populated with that form, it was obvious that the issue was with submitting data using reveal-modal. After more research, it became obvious that to do form submittal in a popup view, we need to utilize AJAX with dynamic page loading.