EECE 3093C – Software Engineering

Beta Testing Results

Application Name: UC Schedule

Developers: Arthur Johnson, Matt Scurry

Functional Quality:

1. The UI is neat and easy-to-use. However, it can be made more visually appealing (include colors and logos specific to the school/organization)
2. The login screen looks good but consider including "remember password" and "forgot password" options here.
3. List schedule based on semesters/quarters rather than saying something like "agenda for before/after Nov.2013".
4. Consider including a reminder feature/field for projects/assignments that are due for courses.

Structural Quality:

1. The code structure is in a reasonable shape, in terms of modularity.
2. Consider using a switch case instead of if-elses for looping through all the Classes.
3. In comments/documentation, replace the term "class"/"classes" with "course"/"courses" (it contradicts the "class" keyword in OOP)
4. Variables and methods should be at the minimum scope possible. There is more scope for data encapsulation. Several instances of duplicate code!
5. Good comments and definition of variables (for the most part).
6. JSON parser requires a more robust error/exception handling. Database parsing is prone to bugs/exceptions.
7. The test plan is substantial (may be extended further for database CRUD operations). Some existing test cases are either not working or not sufficient for covering all scenarios.
8. The documentation has no evidence of mock UI designs. It should be possible to envision the app functionality just by browsing documentation. There are no UI design mock-ups in the req/specs document.
9. Consider creating a well-structured interface (clear and standardized inputs/outputs) for integrating the app with the database. This feature will greatly help with extending the app to various custom university databases

Competitive Benchmarking and Social Impact:

1. With a flexible and well-abstracted database interface, the app. has the potential to hold a strong market value across academic institutions.
2. The app may be well-received by mostly student users.