

### **Features Correctly Implemented:**

From A2 we had most of the front end features of our website pretty much properly implemented. For A3 some new features that were correctly implemented are the registration and login page that includes authentication through the database. All of the student features were implemented correctly which displays a welcome message by name when a student logs in and allows them to see all of the contents of the websites previously displayed in A2 along with the ability to view their grades on assignments, tutorials and exams and the ability to submit remark requests. They are also able to see the status of their remark request as any grade changes. Students also choose an instructor and submit an anonymous feedback which gets collected in the database and the instructor can view said feedback that is written about them. We were also able to correctly implement the instructor features which includes proper authentication and welcome message after signing in; viewing, entering, and updating student marks along with viewing remark requests and viewing anonymous feedback about them. We were also able to dynamically update the page for confirmation messages or button clicks and etc with javascript.

### **Summary:**

- Registration/login authentication
- Display message if username not found or password incorrect
- Different visibility for students and teachers
- Students a welcome message after login
- Students can view their own marks
- Students can submit remark requests and view status of request
- Students can give an anonymous feedback by choosing instructor
- Instructors receive welcome message
- Instructors can view/mark/update student marks
- Instructors can view remark requests and approve/deny and update the marks
- Instructors can view any feedback written about them
- Everything from login, marks, feedback and requests get stored in the database
- The page dynamically updates through the use of javascript for features such as confirmation messages, certain buttons that open up text boxes.

**NOTE: Most of our javascript is written in <script><\script> tags in our html files as they are small and it gets too messy working with so many files.**

### **Some features we struggled with:**

The main thing we as a group struggled with was bringing all of the things together. As each of us were working on separate parts, integrating the backend/database to the front end was quite a challenge. We also struggled with creating separate views for different users as some pages only students can see while others on instructors can see. Another tricky thing was taking information from one page and displaying it into another which (eg. instructor entering a mark and displaying in student marks page). This part was especially tricky since some group

members are working on back end while others in the front end so we had to carefully look at eachothers code and make sure any id's we use for buttons and inputs correspond.

### **How the work was divided**

- DJ Hawkin focused on the authentications and login/register information which included some backend work with the database and flask.
- Abdur Raheem implemented all of the back end including the database and flask along with some front end such as the anonymous feedback and the instructor view of remark requests
- Tahmeed Rahman mainly focused on the front end portion of the website with HTML and CSS files along with dynamic updates of page with JavaScript

### **Extra Features:**

- When registering, users first click the type of registration they want, (instructor or student) and they get a form based on that.
- If a student wants to make a remark request, they first click the button which opens up an input box in which they can write their request and submit. Then they get a confirmation message. (Done through javascript).
- Teachers get a popup message when after they submit or update marks