INST 126
Spring 2020

Project Final Deliverable

1. Project title

Grade A Course Finder

2. Team members and roles

Project manager – Gabrielle Mahapat (gabriellemahapat@gmail.com)

Keeps track of individual task commitments, due dates, and status (complete, in-progress, overdue, etc.). Reminds (and sometimes nudges) team members on their tasks. Reports weekly team update. Needs to be organized, a good communicator, and willing to "push" people a bit.

Analyst – Trinity Newsome (tnewsome@umd.edu)

Leads team members in analyzing the problem, breaking it down into sub-problems, identifying system components, creating a description and/or diagram of the components (modules, functions, etc.), and how they fit together. Makes sure that all the code produced by the individual coder fits together. This role especially often draws on the computational thinking strategies (although they all do to some extent).

Tester – Getahun Seyoum (getasey@gmail.com)

Determines whether the code meets the requirements. Identifies what parts of the requirements are satisfied, and what parts are not yet satisfied. Make sure that the new code doesn't break the old functionality – that the system still works.

Researcher – Chika Chuku (cchuku@terpmail.umd.edu)`

Gather the data or information needed. For example, gets sample data from clients, finds Python functions or modules that do specific functions needed by the team, etc.

Developer - Rankin D'Souza (rankindsouza12@gmail.com)

Creates the project envisioned by the team members and works with everyone to ensure proper execution.

3. Summary of accomplishments

As a team of 5, we worked together to create pseudocode, working background code, GUI code as well as a system diagram for our class review system. The working background code and GUI were made on Jupyter Notebook and we integrated Python's Tkinter library into our prototype for the user interface. The class reviews were stored in a CSV file which is then accessible to view through our interface.

In order to enforce version control over our remote working conditions, we made use of repl.it, this site allowed us to save and update our project code in real-time while collaborating.

Overall, we:

Brainstormed and came up with a project idea

Created a GitHub repository to enforce version control

Wrote pseudocode and created a system diagram for the idea

Wrote background code that accomplished our first goal of storing student reviews

Worked as a team to develop a working prototype

4. Summary of learning

As a team we learned how to:

- *Write into a CSV file*
- *Code projects remotely*
- *Communicate effectively*
- *Create an interactive GUI*
- *Document progress*

5. Next steps

- *Create a graphical user interface with graphs and charts from pandas*
- *Allow the user to search up specific classes, ratings or even professors*
- *Integrate the program into a web platform*
- *Focus group with students at UMD to add more changes*

6. Individual contributions

Describe each team member's ***specific*** *contributions. Indicate what code they contributed. Be sure that there are comments in the code that clearly label each person's contributions. Use a bullet list.*

- *Pseudocode - Trinity and Gabrielle*
- *Background Code - Chika, Getahun, and Rankin*
- *GUI - Rankin and Chika*
- *System Diagram - Rankin*
- *Github Version Control - Chika, Trinity, Gabrielle, Getahun, and Rankin*

7. Include <u>everything</u> **for your project in the ZIP file (including previous updates/code-snapshots, where available). Make sure you follow the rubric in the Team Project information doc.**