

Team Three Project Plan

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University of Maryland Global Campus

CMSC 495-7382: Capstone in Computer Science

Professor David Castillo

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Fortune Teller

Project Description

This application will be used by consumers to generate a fortune based on menu options. The user will have the choice to pick between different categories which include love, career, health, general, and random. The application will then show the user the fortune related to their choice. If the user chooses random, the application will display a random fortune from any of the available categories. The application allows users to register an account within the program and store the received fortune messages. He/She can then later review them when they run and login to the program. The intended audience are users that would like to gain insight into their future and to have fun using the application. It is also great for users who want to track their luck.

Project Approach

- We will use a waterfall model.
- Our project requirements will take form in use case models and scenarios, ER diagram and UML class diagram.
- We will document and track weekly goals and deliverables using Google Sheet (/Excel).
- We have established communication on Discord and we plan to communicate with each other on the server at least 3 times a week.
- To capture Analysis and Design artifacts, we will use draw.io for UML diagrams.

Application Cycle:

1. The user will be prompted with a welcome page where they can choose to either play as a guest, login, or register.
2. Choosing to play would prompt the user with a menu describing their options for a fortune: (A)love, (B)career, (C)general, (D)health, or (E)random.
3. The application will use a random generator for the random option to give the user a random fortune.
4. The program will display a fortune based on the user's choice.
5. The user will be asked if they'd like to receive another fortune.
6. Choosing another fortune will lead the user back to the menu of options (step 2 in the application cycle).
7. The user can return to the main menu anytime to either register a new account or login with an existing one.
8. Once the user is logged in, he/she would be able to view past fortunes and even save a received fortune.

Implementation and Execution Requirements

Computer (PC or Mac)

The program will be written in python, with support from additional libraries such as tkinter, sqlite3, and bcrypt.

The use of a random generator is needed for option “Random”

The software will be tested for correctness, to make sure the random generator works correctly, and to make sure that the menu options correctly show the correlating fortune.

Team Members:

Michele Cook,
Chelsea Nieves,
Valerie Rudich,
Constance Sturm,
Hoi Lam Wong

Team lead: Hoi Lam Wong

Team roles:

Project manager: Constance (Took responsibility in the initial group discussion)

Business Analyst: Michele (Claimed this role during discord discussion)

System design: Hoi Lam (Picked this as their first option of roles)

Developer: Valerie (Picked this as one of their roles)

Chelsea

Hoi Lam

Constance

Tester: Chelsea (This role was assigned based on being the only role left)

Michele

Deliverables and Milestones

Deliverable	Due Date	Additional Information	Role	Status
Project Plan	Oct 31st	The initial plan for the project	Everyone	Complete
Test Plan	Nov 7th	Test Plan, User Guide	Test Plan - Chelsea/Michele User Guide - Michele Edited/Reviewed by Everyone in group	Complete

Peer Review 1	Nov 7th		N/A Individual	Complete
Project Design	Nov 14th	Use Case Models, ER diagram, UML class diagram, Application development/coding	Hoi Lam (System design) Constance (development) Edited/Reviewed by Everyone in group	Complete
Phase 1	Nov 21st	User Guide Updates, Test Plan Updates, Application Updates Program development	Chelsea & Constance (development) Hoi & Valerie (testing) Updates: Edited/Reviewed by Everyone in group	Complete
Peer Review 2	Nov 21st		N/A Individual	Complete
Phase 2	Nov 28th	Application Testing, Update Code	Chelsea & Hoi (development) Chelsea & Hoi (testing) Edited/Reviewed by Everyone in group	Complete
Phase 3	Dec 5th	Completing Code, Continue Application Testing	Chelsea, Hoi, Constance & Valerie (development) Chelsea, Hoi, & Michele (testing) Edited/Reviewed by Everyone in group	Complete
Final Project	Dec 12th	Final Test of Application, Final Updates of Code	Chelsea, Hoi, Constance, Valerie, & Michele (testing) Chelsea, Hoi, Constance & Valerie (development) Edited/Reviewed by Everyone in group	Complete
Peer Review 3	Dec 12th		N/A Individual	Complete