Project Plan Group 1

Currency Conversion Application

UMGC CMSC 495 Section 6380

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OVERVIEW

This project plan will provide a description of group one’s currency conversion web application. It will contain detailed aspects of the project including deliverables, project scope, team member roles, requirements, case scenarios, and a project schedule. A communication plan will also be included to identify the methods in which information would be shared with stakeholders in a timely manner.

PROJECT DELIVERABLES

The currency conversion web application uses a GUI for users to convert a monetary amount. Users will input a numeric value, select a base currency, and select a conversion currency. After the desired values are input, a ‘convert’ button may be pressed and the converted numeric value will be displayed as output. The project will be delivered through {………………….}

PROJECT SCOPE

**Project Scope Statement**

Develop a currency conversion web application where the user will enter information (initial value, base currency, desired conversion currency) and the converted monetary value will be displayed.

**Project Meeting**

The project meetings are scheduled for each {DAY} at {TIME} from 5/21 to 7/8. During the first meeting, topics such as project design, team roles, and project goals were discussed.

RESOURCE LIST

Several resources will be utilized by the team to accomplish the task of creating the website:

1. Personal computers for programming ({Window OS/Linux ?....})
2. Web-based programming tool ({Visual Studio?})
3. Version-controlled software (GitHub repository)
4. Open source API for conversion rates ( such as <https://moneymorph.dev/> )
5. Internet access (LAN/Wi-Fi is needed)

TEAM MEMBER ROLES

**Project Manager**

This person is responsible for managing the team and organizing meetings. They are responsible for contacting the client about any updates or issues that occur throughout the project. They ensure that all deadlines are met and requirements are completed. The project manager for group one is {……....}

**Programmer**

These individuals are responsible for writing the code for the project. The program will be developed using Python and Flask. The team members that will focus on the backend programming are {………}

**User Interface Designer**

These individuals are responsible for designing the graphical user interface for the project. The frontend of the program will be developed with {JavaScript or html ?}. The team members that will focus on this are {……….}

**Tester**

All team members are to ensure that each section of the project functions as desired. Each team member will write test plans for the portion of the project that they are responsible for developing.

REQUIREMENTS

The project will have the following functional requirements:

* Provide a GUI that allows users to convert a base amount to another currency
* The program shall allow user to enter an initial numeric value
* The program shall allow user to select a base currency from a dropdown menu
* The program shall allow user to select a desired currency from a dropdown menu
* The program shall validate user input
* The program shall only enable the ‘convert’ button once all necessary input is validated
* The program shall display the accurate converted numeric value to the user

CASE SCENARIO

* A user wants to convert an amount of money in USD to GBP
  + The user types in the numeric value of the USD they desire to convert
  + The user selects USD from the base currency dropdown menu
  + The user selects GBP from the desired currency dropdown menu
  + The user clicks “Convert” button
  + The converted amount is displayed on the screen to the user
* Error checking scenarios include:
  + Entering a non-numeric for the initial value to be converted
  + No selection for the base currency type
  + No selection for the desired currency type

SCHEDULE SUMMARY

**Currency Conversion Application – Development Schedule with Milestones**

**(CMSC 495: Group 1 Project, Summer 2025)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **May** | **June** | **July** |

Detail Target End

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Meet Team** | 5/21/25 |  |  |  |  |  |  |  |  |
| **Project Plan** | 5/27/25 |  |  |  |  |  |  |  |  |
| **Project Design** | 6/3/25 |  |  |  |  |  |  |  |  |
| **Phase I Build** | 6/10/25 |  |  |  |  |  |  |  |  |
| **Test Plan** | 6/17/25 |  |  |  |  |  |  |  |  |
| **Phase II Build** | 6/24/25 |  |  |  |  |  |  |  |  |
| **User Guide** | 7/1/25 |  |  |  |  |  |  |  |  |
| **Final Report** | 7/8/25 |  |  |  |  |  |  |  |  |

DETAILED SCHEDULE

**Target Start Target End**

**Meet Team:**  05/14/25 05/21/25

Discuss Roles 05/21/25

Communication Plans 05/21/25

Discuss Project Options 05/21/25

**Project Plan:** 05/21/25 05/27/25

Allocate Roles 05/27/25

Discuss Requirements 05/24/25

**Project Design:** 05/27/25 06/03/25

Config File Load 06/03/25

Backend coding 06/02/25

Frontend coding 06/02/25

**Phase I Build:** 05/30/25 06/10/25

Config File Load 06/09/25

Backend development 06/09/25

**Test Plan:** 06/10/25 06/17/25

Indiv Test Plans 06/15/25

First Draft (Test Plans) 06/12/25

Final Draft (Test Plans) 06/16/25

**Phase II Build:** 06/03/25 06/24/25

User UI 06/23/25

**User Guide:** 06/25/25 07/01/25

Indiv User Guides 06/30/25

First Draft (User Guide) 06/27/25

Final Draft (User Guide) 06/30/25

**Final Report:** 06/17/25 07/08/25

Compile Report 07/07/25

Presentation 07/07/25

SCHEDULE UPDATE & TRACKING

**Currency Conversion Application – Development Schedule with Milestones**

**(CMSC 495: Group 1 Project, Summer 2025)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Phase** | **May** | **June** | **July** |

Detail Target End

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Meet Team** | 5/21/25 | COMPLETE |  |  |  |  |  |  |  |
| **Project Plan** | 5/27/25 |  |  |  |  |  |  |  |  |
| **Project Design** | 6/3/25 |  |  |  |  |  |  |  |  |
| **Phase I Build** | 6/10/25 |  |  |  |  |  |  |  |  |
| **Test Plan** | 6/17/25 |  |  |  |  |  |  |  |  |
| **Phase II Build** | 6/24/25 |  |  |  |  |  |  |  |  |
| **User Guide** | 7/1/25 |  |  |  |  |  |  |  |  |
| **Final Report** | 7/8/25 |  |  |  |  |  |  |  |  |

COMMUNICATION PLAN

Team members will communicate via the LEO “Group 1 Members Only” discussion group and daily through Discord. Group members will also manage version control via a GitHub repository “CMSC495” created by Jackson Perry.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **CONTACT LIST** |  |  |
| **Name** | **Org** | **Role** | **Discord** | **GitHub** |
| Elizabeth Bloss | UMGC  CMSC 495 | XXX | E\_Bloss | erbloss |
| Jackson Perry | UMGC  CMSC 495 | XXX | jackson1982\_ | jackson-perry |
| Carl Blocker | UMGC  CMSC 495 | XXX | Cblock11 |  |
| Jonah Kiplimo | UMGC  CMSC 495 | XXX | lymore\_afk | lymore-afk |
| Hung Dao | UMGC  CMSC 495 | Instructor | N/A | N/A |

RISK MANAGEMENT

There can be several risk factors that may result in project delays or that could affect the overall efficiency of the program. Some of the risks that can be anticipated are:

* Team Availability
  + We may fall behind due to scheduling conflicts if we are unable to consistently meet and discuss the development of the project
  + To resolve this issue, we will predetermine a set time for weekly communication where we will discuss what we have accomplished and what needs to be done. There will also be an ongoing chat forum via Discord
* Teamwork
  + Team collaboration in computer science is a new territory for some in the group. Members will learn to work together in a virtually remote setting and use version control software (GitHub) to submit a cohesive program.
* Unfamiliarity with specific programming languages
  + There are some members that may be more familiar with the languages chosen to create the program. Each of us is expected to familiarize ourselves with the languages that we will be using so that we are better prepared to contribute to the group. Open and respectful communication among members will enable us all to grow as programmers.