Project Plan

CMSC 495 6380

5/28/2021

Group 5

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**Requirement Specifications**

Cobra Bank App is a simple web application that allows users to view their accounts, transfer, deposit and withdraw money from their account. Project requirements are defined in the project requirements document.

**System Specifications**

Hardware, OS, application software (with version) needed to develop and run project

* Hardware
  + Development
    - Windows PC (AMD Six core processor 3.6GHz, 16 GB RAM, 500GB SSD)
* Software
  + Development
    - OS
      * Windows 10.0, Build 19042
    - IDE
      * Pycharm 2020.3.2
      * Netbeans 12.3
      * Git for Windows 2.24.1.windows.2
    - Editor
      * VIM 7.6
      * Sublime Text Editor 3
  + Application Software
    - Python 3.9.2
    - Flask 2.0.1
    - Werkzeug 2.0.1
    - Jinja 3.0.1
    - itsdangerous 2.0.1

Production Deployment

* Hardware
  + Linux 1 GB RAM, 1 vCPU, 40 GB SSD
    - Hosted AWS Lightsail - Frontend
  + MongoDB 512GB Cluster
    - Hosted MongoDB Atlas - Backend

**Software Management**

GitHub for version-control and document collaboration.

**Project Schedule**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Duration (days)** | **Start Date** | **End Date** | **Personnel** |
| Project Requirements   1. Analysis 2. Writing 3. Review and revision | 5  1  3  1 | 5/28  5/28  5/29  6/1 | 6/1  5/28  5/31  6/1 | Sean, Summer, Keith |
| Project Analysis   1. Analysis 2. Self-review and writing 3. Review and revision | 7  2  3  2 | 6/2  6/2  6/4  6/7 | 6/8  6/3  6/6  6/8 | Sean, Summer, Keith |
| Project Design   1. Analysis 2. Self-review and writing 3. Review and revision | 7  2  3  2 | 6/9  6/9  6/11  6/14 | 6/15  6/10  6/13  6/15 | Sean, Summer, Keith |
| Project Test Plan and Project ICD   1. Analysis 2. Self-review and writing 3. Review and revision | 7  2  3  2 | 6/16  6/16  6/18  6/21 | 6/22  6/17  6/20  6/22 | Sean, Summer, Keith |
| Implementation and Testing   1. Sprint 1 – Basic Structure 2. Sprint 2 – Feature | 7  7 | 6/23  6/30 | 6/29  7/6 | Sean, Summer, Keith |
| Final Deliveries (Code, Binaries, Test Data, and User Guide)   1. Documentation 2. Review 3. Final Submission | 7  2  3  2 | 7/7  7/7  7/9  7/12 | 7/13  7/8  7/11  7/13 | Sean, Summer, Keith |

**Revision History**

|  |  |  |
| --- | --- | --- |
| **Date** | **Name** | **Description** |
| 5/28 | Summer | Created document with cover page, revision history table, and outline |
| 5/31 | Sean | Added personal dev environment specs, application software and dependency modules, and general schedule estimates |
| 6/1 | Keith | Added Production environment hardware and database specs |
| 6/1 | All | Breakout plan details over zoom and final revision |