**“Cyber Fitness” Application**

**CMSC 495 6381**

Created : January 30, 2020

**Group 4 Members:** Brisson, Lesly **|** Ciullo, Stephen| Cochran, Jacob **|** Fahlgren, Travis

**REVISION HISTORY**

|  |  |  |
| --- | --- | --- |
| Revision History Chart | | |
| Date(s) | **Name** | **Revision Description** |
| 20 Jan 2020 | Fahlgren, Travis | Initial Creation |
| 20 Jan 2020 | Brisson, Lesly | Document/Format Update(s)/Name Suggestion |
| 20 Jan 2020 | Ciullo, Stephen | Add GitHub link |
| 21 Jan 2020 | Brisson, Lesly | Added 4 Functional Requirements to Doc/Re-Updated Doc |
| 21 Jan 2020 | Cochran, Jacob | Added 2 Functional Requirements and Dev Platform Info |
| 24 Jan 2020 | Brisson, Lesly | Added 2 Functional Requirements, Requirement Specifications/Updated Document Format |
| 25 Jan 2020 | Ciullo, Stephen | Add additional specifications, as well as overall requirement adjustments. |
| 30 Jan 2020 | Brisson, Lesly | Initial Project Analysis Creation |
| 2 Jan 2020 | Ciullo, Stephen | Adjust project analysis to match class requirements |
| 2 Jan 2020 | Cochran, Jacob | Add additional identifying components and enhancements to project analysis |
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**PROJECT REQUIREMENTS**

1. **Functional Requirements of the System**

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| --- | --- |
| System Functional Requirements | Unique ID |
| Allows Users to create a username & password | **10001** |
| Password must have 1 Capital Letter, 1 Special character & at least 8 characters long | **10002** |
| Must allow user to add(join) or remove(unjoin) a specific class  Classes: Kickboxing, Bike Cardio, H.I.T, Swimming, Yoga | **10003** |
| Must display joined class schedules (time & date) to user on login | **10004** |
| Must allow user to add fitness data specific to class  Fitness Data: Age, Weight, Height, Target Height Goal, Calories | **10005** |
| Must allow user to view fitness history specific to class  History: Length of Class, Calories Burned, Weight Lost | **10006** |
| Must allow user to set fitness goal (weight, classes completed, etc.) and track progress | **10007** |
| Must display congrats meeting when fitness goal is met/achieved | **10008** |
| Maintains user information in encrypted file (STRETCH GOAL) | **10009** |
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**PROJECT PLAN**

1. **Requirement Specifications: Project Topic**

The project topic is a Fitness Club Application aimed to help users improve overall health by offering various fitness classes and tracking fitness progress over time.

1. **System Specification: Required System to Develop & Run the Project**

Hardware: Any device that can run Python and instantiate a Web Server. This may require firewall specifications to be removed depending.

Operating System: The goal is to have the project be platform agnostic (no platform-specific code).

Application Software: Python 3.7+

1. **Project Schedule:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Task(s) | Duration (Days) | Start | End | Personnel |
| 1. Project Requirements  a. Writing  b. Self-Review  c. Revise for submission | 7  4  2  1 | 1/20  1/20  1/24  1/26 | 1/26  1/23  1/25  1/26 | Lesly, Travis  Lesly, Travis, Stephen, Cochran  Lesly, Travis, Stephen, Cochran |
| 2.Project Analysis  d. Analyzing  e. Self-Review  f. Revise document for submission | 7  5  1  1 | 1/27  1/27  2/1  2/2 | 2/2  1/31  2/1  2/2 | All  All  All  All |
| 3. Project Design | 7 | 2/2 | 2/9 | All |
| 4. Project Test Plan and ICD | 3 | 2/10 | 2/12 | All |
| 5. Sprint 1 | 7 | 2/13 | 2/20 | All |
| 6. Sprint 2 | 7 | 2/21 | 2/28 | All |
| 7. Test documentation and additional project analysis | 7 | 2/25 | 3/3 | All |
| 6. Sprint 3/Final Deliverables (Code, Binaries, Test Data and User’s Guide) | 3 | 3/4 | 3/6 | All |

**PROJECT PLAN**

1. **Development Platform**
2. Travis: Intel i9-9900K 3.6 GHz, 16 Gigabytes memory, 500 GB SSD, Windows 10, Pycharm 2019.3.1, Python 3.7
3. Lesly: Intel® Core™ i7-8750H CPU @ 2.20GHz, 16GB, 500GB SSD, Windows 10, 64-bit OS
4. Stephen: Intel i7-6700 CPU @ 3.4 GHz, 4 cores, Windows 10, Python 3.7.
5. Cochran: AMD Ryzen 5 3600, 32 GB Memory, 1 TB SSD, Windows 10, Python 3.7
6. **Operating Platform**

The operating platform will be any device that supports Python 3.7 and higher. Some older Operating Systems (Windows Vista, etc.) do not support newer versions of Python. The goal is to have a Python script that will launch a web interface, allowing a user to interact with a webpage and choose/modify fitness classes.

1. **Software Management**

GitHub Link: <https://github.com/chewyfresh/CMSC-495>.

Slack

Learning Environment Online (LEO).