Zach Thomas Project Estimate

1/28/18

# Introduction

To have an easy and predictable schedule regarding the production of this application, the sprints will be broken down into one use case per sprint, with the last sprint being slightly more intensive than the others. Each use case will have its own place in the overall MVC architecture of the application, respectively. Therefore, there will be roughly one of each type of file made each sprint (model, view and controller) in addition to any miscellaneous file that would be needed. Each user story will ideally come after the one before it, showing all of the use cases of the application in the theoretical order they would occur in. Obviously there is no way to predict which would happen when in real life, but there will at least be a logical order to follow. This order helps the most because it will also obey how and in what order the application organizes and collects data. For example, a user can’t chart and data they have tracked before they have made a profile, because they wouldn’t have created a profile in the first place.

# User Stories

|  |  |
| --- | --- |
| **User Story #** | **User Story** |
| **1** | Chad wants to simply improve the way he eats and decides to make an account to start tracking his calorie intake. |
| **2** | Bill hired a personal trainer to improve his exercise routines, and made an account to show them the exercises and diet decisions he’s made in the last month. |
| **3** | Sandy tracks her meals and lists her daily caloric intake over a three week period. |
| **4** | Sandy tracks her exercise routines and lists her daily caloric intake over a three week period to match which exercises work well with a certain diet. |
| **5** | John creates a calorie and exercise goal to try to regulate his daily routines over a several week period. |
| **6** | Lori wants to see a visualization of her calorie intake over the last month to adjust routine accordingly. |
| **7** | Brian wants to see a visualization of his burned calories due to exercise over the last month to adjust routine accordingly. |

# Product Backlog

|  |  |  |
| --- | --- | --- |
| **Backlog #** | **User Story #** | **Backlog Item Description** |
| **1** | **1,2** | Create a user account model to organize the user information submitted. |
| **2** | **1,2** | Create an authentication logic file that interfaces with user models. |
| **3** | **1,2** | Create a system to dynamic serialize and save user data into local, usable files, or a database. |
| **4** | **1,2** | Create a login view. |
| **5** | **1,2** | Create login controller to handle interaction between view and data. |
| **6** | **1,2** | Create a user account view. |
| **7** | **1,2** | Create a user controller to handle interaction between view and data. |
| **8** | **3** | Create calorie entry model. |
| **9** | **3** | Create calorie entry view to input/edit entries. |
| **10** | **3** | Create object for calorie entry lists. |
| **11** | **3** | Determine separate directory for calorie list files. |
| **12** | **3** | Create controller to interface calorie list views and data. |
| **13** | **4** | Create exercise entry model. |
| **14** | **4** | Create exercise entry view to input/edit entries. |
| **15** | **4** | Create a pseudo-model object for exercise entry lists. |
| **16** | **4** | Determine separate directory for exercise list files. |
| **17** | **4** | Create controller to interface exercise list views and data. |
| **18** | **5** | Create model to combine calorie and exercise goal values. |
| **19** | **5** | Create accompanying goal controller to interface with. |
| **20** | **6** | Create view for drawing calorie graph using some kind of plugin. |
| **21** | **6** | Create specialized controller for calorie graph to parse calorie list. |
| **22** | **7** | Create view for drawing exercise graph using some kind of plugin. |
| **23** | **7** | Create specialized controller for exercise graph to parse calorie list. |

# Project Sprints

|  |  |  |
| --- | --- | --- |
| **Sprint #1: from Feb 4 to Feb 11** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
| **1** | Create a user account model to organize the user information submitted. | **1** |
| **2** | Create an authentication logic file that interfaces with user models. | **2** |
| **3** | Create a system to dynamic serialize and save user data into local, usable files, or a database. | **4** |
| **4** | Create a login view. | **1** |
| **5** | Create login controller to handle interaction between view and data. | **0.5** |
| **6** | Create a user account view. | **1** |
| **7** | Create a user controller to handle interaction between view and data. | **0.5** |

|  |  |  |
| --- | --- | --- |
| **Sprint #2: from Feb 18 to Feb 25** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
| **8** | Create calorie entry model. | **1** |
| **9** | Create calorie entry view to input/edit entries. | **1** |
| **10** | Create object for calorie entry lists. | **3** |
| **11** | Determine separate directory logic for calorie list files (expand off of first implementation of system above). | **2** |
| **12** | Create controller to interface calorie list views and data. | **3** |

|  |  |  |
| --- | --- | --- |
| **Sprint #3: from Mar 2 to Mar 18** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
| **13** | Create exercise entry model. | **1** |
| **14** | Create exercise entry view to input/edit entries. | **2** |
| **15** | Create a pseudo-model object for exercise entry lists. | **3** |
| **16** | Determine separate directory for exercise list files. | **2** |
| **17** | Create controller to interface exercise list views and data. | **2** |

|  |  |  |
| --- | --- | --- |
| **Sprint #4: from Mar 25 to Apr 1** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
| **18** | Create model to combine calorie and exercise goal values. Integrate this model with drawing and tracking foundations. | **5** |
| **19** | Create accompanying goal controller to interface with, again, link information with tracking and drawing. | **5** |

|  |  |  |
| --- | --- | --- |
| **Sprint #5: from Apr 8 to Apr 15** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
| **20** | Create view for drawing calorie graph using some kind of plugin. | **3** |
| **21** | Create specialized controller for calorie graph to parse calorie list. | **2** |
| **22** | Create view for drawing exercise graph using some kind of plugin. | **3** |
| **23** | Create specialized controller for exercise graph to parse calorie list. | **2** |
| **Sprint #6: Final** | | |
| **Backlog #** | **Task Description** | **Story Point Estimate** |
|  | Create view for drawing a form of combined graph | **5** |
|  | Implement all error handling | **5** |