**Oriental Zodiac Patronus - Implementation Plan**

**(Used together with Trello board)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Features | Checklists for Each Feature | Priority Level of Each Task  (High, Medium, Low) | Estimated Duration for Each Task | Results |
| Feature 1 - Enter birth year and receive your Chinese zodiac animal | 1. Ensuring if user selects option 1, the Feature 1 will run | **Medium** | 5 mins | Completed |
| 2. Getting user input (birth year) and calculating user’s age (using ‘2019 - birth year’) | **Medium** | 5 mins | Completed |
| 3. Setting the ‘Chinese zodiac animals’ array in correct index order | **High** | 15 mins | Completed |
| 4. Working out user’s zodiac animal by calculating the index of the array (using modulus of 12) | **High** | 30 mins | Completed |
| 5. Advising user of the characteristics of their zodiac animal | **Medium** | 15 mins | Completed – But the code could be dryer! Will come back to dry the code if have time |
| Feature 2 - Enter your zodiac animal to see your zodiac animal compatibility (best matches & major conflict) | 1. Ensuring if user selects option 2, the Feature 2 will run | **Medium** | 5 mins | Completed |
| 2. Getting user input (zodiac animal) | **Medium** | 5 mins | Completed |
| 3. Working out user’s best matches by soring the index pattern of the array | **High** | 30 mins | Completed – Should be better ways to implement the index calculation. Will come back to improve it if have time |
| 4. Working out user’s worst match by soring the index pattern of the array | **High** | 30 mins | Completed – Should be better ways to implement the index calculation. Will come back to improve it if have time |
| 5. Ensuring each index number is less than 12 (i.e. it should start from 0 and end at 11) | **High** | 30 mins | Completed – Should be better ways to implement the index calculation. Will come back to improve it if have time. |
| Feature 3 - Enter your zodiac animal to predict your luck in 2020 | 1. Ensuring if user selects option 3, the Feature 3 will run | **Medium** | 5 mins | Completed |
| 2. Briefly describing the concept of ‘Tai Sui’ for better user understanding | **Low** | 10 mins | Completed |
| 3. Getting user input (zodiac animal) | **Medium** | 5 mins | Completed |
| 4. Setting up the animals that will clash with ‘Tai Sui’ in 2020 | **High** | 5 mins | Completed |
| 5. Writing message for both animal groups | **Low** | 10 mins | Completed |
| Other minor features | 1. Designing a welcome message, which also incorporates ‘ARGV’ | **Low** | 10 mins | Completed – Can think about more ways to incorporate ‘argv’. Will come back to improve it if have time. |
| 2. Designing a goodbye message | **Low** | 5 mins | Completed |
| 3. Creating a loop so that users can continue playing with this app until they choose to exit | **High** | 60 mins | Completed |
| 4. Ensuring app has good user interface and experience | **Medium** | Continuously | Completed - Will come back to improve it if have time. |
| 5. Ensuring app is error-free | **High** | Continuously | Completed |

**Trello – Screenshot (03/09/2019)**

**![A screenshot of a cell phone

Description automatically generated]()**

**Trello – Screenshot (04/09/2019)**

**![A screenshot of a cell phone

Description automatically generated]()**

**Trello – Screenshot (05/09/2019)**

**![A screenshot of a cell phone

Description automatically generated]()**

**Trello – Screenshot (06/09/2019)**

**![A screenshot of a cell phone

Description automatically generated]()**