**Project Plan**

**Pawductivity**

|  |  |
| --- | --- |
| Industry Partner |  |
| Primary Instructor | Anjana Shah |
| Team Member | Audrey Tjandra |
| Team Member | Haoyun Yang |
| Team Member | Awsaf Fida Mahmud |
| Team Member |  |
| Team Member |  |

Document Revision History

|  |  |
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| Revision # | Date |
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# 1. Executive Summary

The following describes the project to be executed.

|  |  |
| --- | --- |
| Objective | Pawductivity will be a mobile application developed by Team Rocket to promote productivity and mental health behaviors by gamifying positive behavior. The primary user, a person suffering from self-motivation and self-control, will be able to create and track their own goals, record their mood and thoughts, and temporarily block their phone usage to focus on tasks. The app encourages self-care through the care of a virtual avatar. |
| Corporate Goals Addressed | Pawductivity aims to provide a therapeutic self improvement app that provides features in self help and comfort from our digit pet companion. |
| Planned Start Date | October 16th, 2024 |
| Planned End Date | March 28th, 2025 |

# 2. Project Approvers, Reviews and Distribution List

Approvers, reviewers and distribution list

|  |  |  |  |
| --- | --- | --- | --- |
| Project Role | Name | E-mail | Date |
| Professor | Anjana Shah | ashah@georgebrown.ca | 10-07-2024 |

# 3. Scope

Define the sum total of all of its products and their requirements or features.

|  |  |
| --- | --- |
| In Scope | Out of Scope |
| Journal creation,edit and delete | Payment gateway |
| Journal Search, categorize | Biometrics |
| Habit create, edit and delete | Therapy |
| Timer system |  |
| Calendar system |  |
| Analytics system |  |
| Digital pet interaction |  |
| Reward system |  |
| Mood entry system |  |

# 4. Deliverables

This project will deliver the following.

|  |  |
| --- | --- |
| Deliverable | Description |
| Creation of journal | Create a new journal entry that gives an option for users to input their mood (on a scale from 1 to 5) |
| Edit Journal | Update an existing journal/journal entry |
| Delete Journal | Users may delete their journal entries |
| View Journal | Users can view a list of journals by entry dates or category |
| Search Journal | User can search their written journals by keyword search |
| Create habit | Users can create habits that can be use later |
| Edit habit | User can edit their habit entries |
| Delete habit | User can remove unwanted habits |
| View habit | User can View a list of their own habits |
| Confirm habit | While the list of habits are being displayed for the user. User may select any of them to confirm that they have completed (Users can complete the same habit multiple times a day; i.e habit: drink water) |
| Set habit notification | User can set up a notification alert for a habit they wish to be reminded of |
| View statistic | System can produce a graph statistic of user complete habits for the user to see. (May only view your own statistics) |
| View Calendar | User may view all the waiting to-do habits in a Calendar view once they set up notifications for certain habits |
| Create Timer | User can initiate a focus or sleep timer built within our app for either focus study or record sleeping schedules |
| Pet interaction | Users can interact with an in-app digital pet that responds in custom animations and dialog options. |

# 5. Assumptions

This project makes the following assumptions:

1.1 Assumption: Key stakeholders of Team Rocket will actively participate for the entire project duration of the year until the project is finished

Impact: Stakeholders provide a specialized skill set required for project completion. If a stakeholder becomes unavailable, project progress would be severely delayed.

1.2 Assumption: Feedback and approval from the Professor and other potential users on the project will be available during sprint submissions.

Impact: Feedback is key to properly developing the app, and making sure it aligns with project requirements.

2.1 Assumption: No major additions in planned systems-compatibility or feature requirements will be made during project duration.

Impact: The project’s schedule is planned under the assumption that the current features and software systems will be focused upon. While features may adjust to suit feedback, major additions will significantly delay project completion.

2.2 Assumption: Project will be finished by the due date of March 28th, 2025.

**Technical Requirements**

3.1 Assumption: Software used by developers will be compatible with each other. Developers will be able to learn how to use any unfamiliar software.

Impact: If the project uses incompatible software, the progress will be halted until compatibility is fixed. To mitigate, software will be tested with each other before investing significant time into developing.

3.2 Assumption: Servers required will be available for usage and in the budget.

Impact: Because Pawductivity will have user accounts, database servers to record usage are critical for functionality for users.

# 6. Dependencies

The following are the internal and external dependencies that will have to be acknowledged and addressed;

* Drawing software: The availability of a program that allows sketching, rendering and animating
* External online database: Purchasing online database for the application to access for storing and reading application data such as journal entry, user habits, etc.
* Hosting services: 3rd party service for deploying the application and providing live service to users.

# 7. Risk Management

|  |  |  |  |
| --- | --- | --- | --- |
| Potential Risk | Severity (H/M/L) | Likelihood (H/M/L) | Management Strategy |
| Data breach | M: dependant on 3rd party cloud service provider | L | N/A |
| Budgeting | H: Maintenance cost for 3rd party database and server | L | N/A |
| College assessments | H: Over 5 extra courses | H | Team member time management on their individual tasks |
| Estimated project delivery Schedule | H: Functional prototype expected in 12 months | H | plan regular meetings confirming project progress.Set up deadlines for individual feature of the project |
| Number of interfaces to existing Systems Affected | H: Over 3 interfaces | H | Plan wireframes and document interface features |
| Number of team members unknowledgeable in business | M: Minimum experience in business | M |  |
| Absence of professional application development knowledge | M: Team members in learning process of making mobile application | M | Frequently seek help from college professors for industry standard advice. |
| Project Team Availability | M: One team member have different course schedules | M | Review weekly meeting schedules to accommodate every team member. |

# 8. Communication

**Reporting**

The following reports will be produced;

|  |  |  |
| --- | --- | --- |
| Report | Audience | Frequency |
| Progress report; Team task status report | Project team members | Weekly |
| Project direction report | Project team members, Project overseer | Weekly |

**Meetings**

The following meetings/communication will be established;

|  |  |  |  |
| --- | --- | --- | --- |
| Meeting | Purpose | Attendees | Frequency |
| Project team meetings | Weekly check-ins | All members | Weekly |
| UX design review | Give Project overseer the opportunity to review UI/UX design | All members, Project overseer | Once after initial |
| Project status meeting | Update team status and resolve questions | All project Members | Online, Monthly |

# 9. Task Listing (WBS- Work Breakdown Structure)

The following resource proposal template summarizes the resource hours committed to this project, upon final approval of this document.

|  |  |  |  |
| --- | --- | --- | --- |
| Reference | Task | Duration | Dependency |
| A.1 | Journal Feature design overview | 5 weeks | - |
| A.2 | Journal creation wireframe design | 4 weeks | A.1 |
| A.3.1 | Journal front-end development | 7 weeks | A.2 |
| A.3.2 | Journal back-end development (CRUD) | 7 weeks | - |
| A.4 | Connect journal front-end to back-end | 6 weeks | A.3.2, A.3.1 |
| B.1 | Habit Tracking feature design overview | 5 weeks | - |
| B.2 | Habit wireframe design | 4 weeks | B.1 |
| B.3.1 | Habit front-end development | 9 weeks | B.2 |
| B.3.2 | Habit back-end development (CRUD) | 9 weeks | - |
| B.4 | Connect habit front-end to back-end | 9 weeks | B.3.2, B.3.1 |
| C.1 | Notification design overview | 3 days | - |
| C.2.1 | Notification front-end | 2 days | C.1 |
| C.2.2 | Notification back-end | 7 days | - |
| C.3 | Connect notification front-end to back-end | 7 days | C.2.1, C.2.2 |
| D.1 | Calendar features overview | 5 weeks | - |
| D.2 | Calendar wireframe design | 4 weeks | D.1 |
| D.3.1 | Calendar front-end | 5 weeks | D.2 |
| D.3.2 | Calendar back-end (CRUD) | 5 weeks | - |
| D.4 | Connect calendar front-end to back-end | 6 weeks | D.3.1, D.3.2 |
| E.1 | Timer features overview | 5 weeks | - |
| E.2 | Timer wireframe design | 4 weeks | E.1 |
| E.3.1 | Timer creation front-end design | 6 weeks | E.2 |
| E.3.2 | Timer creation back-end design (CRUD) | 6 weeks | - |
| E.4 | Connect timer front-end to back-end | 6 weeks | E.3.1, E.3.2 |
| F.1 | Pet interaction overview | 5 weeks | - |
| F.2 | Pet creation & interaction wireframe design | 4 weeks | F.1 |
| F.3.1 | Pet front-end development | 8 weeks | F.2 |
| F.3.2 | Pet backend development (CRUD) | 8 weeks | F.3.1 |
| F.4 | Pet animation design and development | 5 weeks | F.1, F.2 |
| F.5 | Backend storage for animation | 2 weeks | F.4 |
| F.6 | Connect Pet front-end to back-end | 8 weeks | F.3.1, F.3.2, F.5 |
| G.1 | Analytics wireframe design | 4 weeks | - |
| G.2.1 | Analytics creation front-end design | 6 weeks | A, B, E, G.1 |
| G.2.2 | Analytics creation back-end design (CRUD) | 6 weeks | A, B, E, G.1 |
| H | Integration Build | 10 Weeks | A.4, B.4, C.3, D.4, E.5, F.6 |
| J.1 | Beta version test and debug | 5 weeks | G |
| J.2 | Final version test, debug and release | 3 weeks | H.1 |

# 10. Gantt Chart

Create a detailed Gantt Chart from your Task Listing(Use any software tool and paste the image or upload as a separate file that can be opened as pdf/doc/xls)

**<INCLUDED IN T53-Backlog & Gantt Chart.xlsx>**

# 11. Milestones

|  |  |  |
| --- | --- | --- |
| Major Activity or Milestone | Estimated Milestone Target date | Owner/Reviewer Team Members |
| Project scope sprint documentation | October 7th | All team members |
| First draft of UI/UX wireframe design | October 13th | All team members |
| Database design and setup | November 15th | All Team members |
| UI/UX wireframe design complete | Dec 5th | Audrey |
| Back end first prototype Journal, Habit, Timer framework | January 10th | HaoYun |
| Back end first prototype Authentication | January 28th | Haoyun |
| Deploy backend | January 12th | HaoYun |
| Back end first prototype Secondary Features | February 21st | HaoYun |
| Test animation run on front end | January 8th | Awasf |
| First prototype of user login authentication | February 1st | Audrey,  Awasf |
| Front end for Habit, Journal, Timer prototype | February 10th | All Team members |
| Front end for Secondary Features | March 7th | Audrey, Awsaf |
| Back end for Secondary Features | March 7th | Haoyun |
| Complete back end to front end API | March 14th | HaoYun, Awsaf |
| Test first prototype of all complete features | March 14th | All team members |
| Front end cleanup | March 21st | Audrey, Awsaf |
| Final test and deploy beta version | March 28th | All team members |

# 12. RAM – Responsibility Assignment Matrix

Create a RAM from your Task Listing. A sample is shown below:

|  |  |  |  |
| --- | --- | --- | --- |
| Project Team Responsibilities | | | |
| Project Name: Pawductivity | | | |
| Task | Audrey | Haoyun | Awsaf |
| Journal Feature design overview | Primary | Secondary | Secondary |
| Journal creation wireframe design | Primary | Secondary | Secondary |
| Journal front-end development | Secondary |  | Primary |
| Journal back-end development (CRUD) |  | Primary |  |
| Connect journal front-end to back-end | Secondary | Primary | Secondary |
| Habit Tracking feature design overview | Primary | Secondary | Secondary |
| Habit wireframe design | Primary | Secondary | Secondary |
| Habit front-end development | Secondary | Primary |  |
| Habit back-end development (CRUD) |  | Primary |  |
| Connect habit front-end to back-end | Secondary | Primary |  |
| Notification design overview | Primary | Secondary | Secondary |
| Notification front-end | Secondary |  | Primary |
| Notification back-end |  | Primary |  |
| Connect notification front-end to back-end |  | Primary |  |
| Analytics features overview | Primary | Primary | Primary |
| Analytics wireframe design |  | Primary |  |
| Analytics front-end |  |  | Primary |
| Analytics back-end |  | Primary |  |
| Connect authentication front-end to back-end |  | Secondary | Primary |
| Authentication features overview |  | Primary | Secondary |
| Authentication wireframe design | Primary |  |  |
| Authentication front-end | Secondary |  | Primary |
| Authentication back-end |  | Primary |  |
| Connect authentication front-end to back-end |  | Secondary | Primary |
| Calendar features overview | Primary | Secondary | Secondary |
| Calendar wireframe design | Secondary | Secondary | Primary |
| Calendar front-end | Primary |  | Secondary |
| Calendar back-end (CRUD) |  | Primary |  |
| Connect calendar front-end to back-end | Secondary | Primary |  |
| Timer features overview | Primary | Secondary | Secondary |
| Timer wireframe design | Primary |  |  |
| Timer creation front-end design | Primary |  |  |
| Timer creation back-end design (CRUD) |  | Primary |  |
| Connect timer front-end to back-end | Secondary | Primary |  |
| Pet interaction overview | Primary | Secondary | Secondary |
| Pet creation & interaction wireframe design | Primary |  | Primary |
| Pet front-end development |  |  | Primary |
| Pet backend development (CRUD) |  | Primary |  |
| Pet animation design and development |  |  | Primary |
| Backend storage for animation |  | Primary |  |
| Connect Pet front-end to back-end | Secondary | Primary |  |
| Integration Build | Primary | Primary | Primary |
| Beta version test and debug | Secondary | Primary | Primary |
| Final version test, debug and release | Primary | Secondary | Secondary |

# 13. Approval

The signatures below indicate their approval of the contents of this document.

|  |  |  |  |
| --- | --- | --- | --- |
| Project Role | Name | Signature | Date |
| Project Manager | Audrey Tjandra | Audrey Tjandra | 2025-02-02 |
| Front-End Developer | Awsaf Fida Mahmud | Awsaf Fida | 2025-02-02 |
| Back-End Developer | HaoYun Yang | HaoYun Yang | 2025-02-02 |
|  |  |  |  |