Drive Inspector

Project Management Plan

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GIT REKT

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# **CONTENTS**

Introduction and Vision 3

Information on Personnel 4

Information on Process Model 5

Definition of Done 7

Stakeholder Mapping 8

Allocation of Tasks 10

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Tracking Project Progress 12

Storing and Managing Backlogs 13

Tracking Time Spent on Tasks 14

# Introduction

The Drive Inspector offers an easy, foolproof method for assignment markers to determine the amount and quality of contribution from members working in a group. The Drive Inspector differs from other tools, in a way such that it allows for documents on Google Drive to be inspected as well, and is not limited to checking work uploaded via Git. It will produce, alongside other features, a timeline of uploaded work, charts illustrating code checked in by each individual contributor, as well as….

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This document contains information on the project’s aim, vision, as well as decisions on process and personnel. This document also details methods of communication and task division amongst the GITREKT team.

# Vision

For assignment markers who have difficulty identifying individual contributions in projects, the Drive Inspector is an online contribution inspector. It allows assignment markers to audit member’s contributions, and unlike Git Inspector, our project extends to Google Drive documents as well.

Users are able to upload folders and files to examine with data presented in chart form, as well as tables depicting the statistics of member contribution.

# **information on personnel**

**Communication**

|  |  |  |
| --- | --- | --- |
| Name | Email | Phone Number |
| Samuel Khor | [pho0004@student.monash.edu](mailto:pho0004@student.monash.edu) | +60 17-529 4956 |
| Tiong Tay | [ttay0007@student.monash.edu](mailto:ttay0007@student.monash.edu) | +60 11-1089 4199 |
| Bok Zhui Kit | [zbok0002@student.monash.edu](mailto:zbok0002@student.monash.edu) | +60 12-657 6403 |
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| Clarisse Cheah | [cche0058@student.monash.edu](mailto:cche0058@student.monash.edu) | 019-389-3038 |

It was decided that the primary means of contact between team members would be via WhatsApp. All team members were added into a WhatsApp group, and members are expected to respond in a timely manner.

Members can also be contacted via email, for more formal purposes, such as liaising with the client, and client representatives.

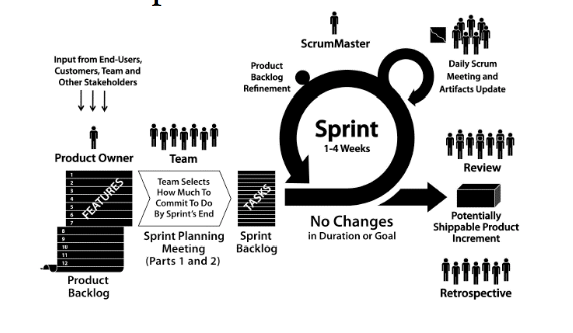
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**Roles & Responsibilities**

|  |  |  |
| --- | --- | --- |
| Name | Role | Responsibilities |
| Samuel Khor | Scrum Master | Risk Register |
| Tiong Tay | Member | Analysis of Alternatives |
| Bok Zhui Kit | Member | Project Plan |
| Jeremy Lau | Member | Analysis of Alternatives |
| Clarisse Cheah | Member | Project Plan |

# **process modeL**

Our team will be following a variant of the Scrum Process Model. This section explains in detail the version we will be using throughout this project, as well as how it differs from the original process model.

*Original Scrum Process Model*

**Overview**

Features to be implemented will be placed in a **product backlog,** and progress traced using Trello (kanban). The team will select and delegate certain numbers of features to be implemented at the beginning of the Sprint, during the **sprint planning meeting.** At the end of every Sprint, we will conduct a **product review/retrospective** meeting, with the Product Owner present. This will be followed up by a **backlog refinement** process, at which point we will commence the next Sprint.

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**Details**

The duration of a Sprint will last **two weeks, with the week starting on Thursday**. This has been changed from the original duration of one week to accommodate for inspection which happens every two weeks on Thursday.

One sprint will deal with an approximate number of **15 story points.** We will enforce the usage of a **sprint backlog** as well as a **product backlog** in order to keep track of the members working on a task at any one time.

Story points will be designated based on relative difficulty of the task compared to the other tasks in the sprint, instead of the previous system of an estimate based on time in days. The range would be from **1SP - 5SP.** The change in our story point system is due to the fact that the previous system caused too many stories to have a difficulty of only 1SP.

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**Differences**

* Our team will not be implementing a **Daily Scrum** meeting, replacing it instead, with a **stand up meeting every Tuesday and Friday.** The time and place of the meeting would be decided a day in advance. This decision has taken into account the amount of features we have to implement, as well as the available time of the members per day. Doing so will maximise efficiency of the members as well as reduce the amount of time wasted should there be close to no progress updates on a daily basis.

# **definition of done**

# tasks and sprint

-Feature is tested against acceptance criteria

-Documentation updated

-Peer Code Review performed

-All chosen tasks implemented

-Retrospective conducted

-Black box testing of product conducted

-Product backlog updated

-Features ok-ed by Product Owner

# project

The overall definition of done for the project in its entirety :

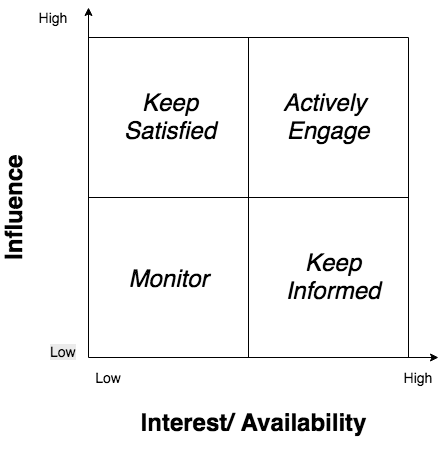
* All features at deployment stage

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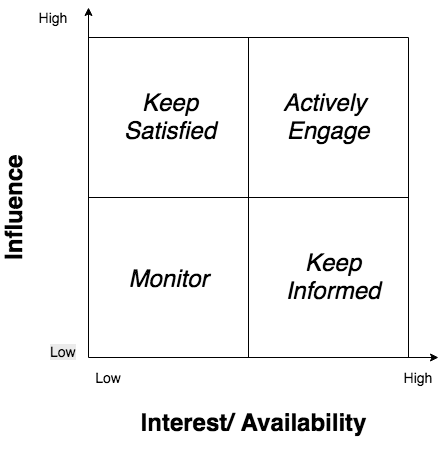
* Features ok-ed by Product Owner
* Testing performed and passed at acceptable level

# **Stakeholder mapping**

|  |  |  |
| --- | --- | --- |
| Role | Person/Group | Engagement Methods/Frequency |
| Product Owner | Chong Chun Yong | - Face to face meetings discussing and negotiating features prior to planning   * Attendance at retrospective meetings * Whatsapp/Email concerning urgent matters |
| Stakeholder | Lecturers | - Present for user acceptance testing |

Stakeholder 1: Chong Chun Yong

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Stakeholder 2: Lecturers

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# **Allocation of tasks**

To complete the project, our team breaks down large tasks into smaller, manageable tasks to ease the completion of the project. Task breakdown was implemented as every individual member of the team is required to contribute their time and effort to complete their tasks. Once completed, all the tasks are combined and the final completion of project can be prepared for evaluation and production. There are many ways allocation of tasks can be carried out.

For our team, we decided to implement this allocation of tasks in such a way whereby team members list down their strengths and weaknesses. Then, the team leader would have a meeting with the team members. The team leader would hand over the tasks to the team members according to their strengths. If there is a dispute among team members, they are allowed to discuss and the team leader would find the best way to resolve it. For this project, after discussion and allocation of tasks, we came up with a list of who and what that member would be doing.

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|  |  |
| --- | --- |
| Team Members | Task |
| Samuel Khor | Risk Register |
| Tiong Tay | Analysis of Alternatives |
| Jeremy Lau | Analysis of Alternatives |
| Bok Zhui Kit | Project Plan |
| Clarisse Cheah | Project Plan |

# **flowchart on task allocation**

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# **tracking project progress**

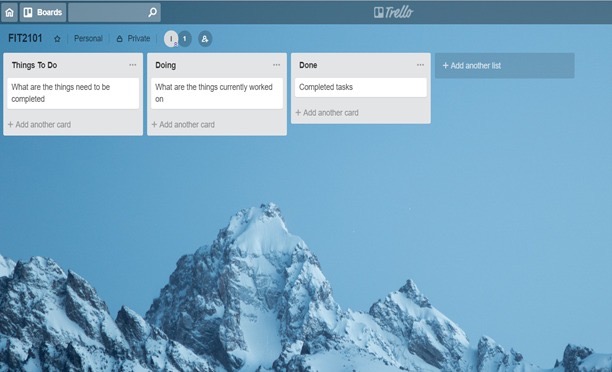
Keeping track on progress is crucial to ensure the project can be completed on time. To do so, we broke down tasks into sprints. We discussed on the priorities of the tasks and allocated it to the sprints. We used story points on each task in the sprint to roughly determine the time needed to complete it. By doing so, we would be able to plan our timeline in advance. There are many applications available to keep track on progress in the internet. However, our team decided to stick onto an application. The application would be Trello. This application has its own benefits to our team members.

Trello is also known as Kanban. Kanban in Japanese means billboard or signboard. It is a good scheduling system. Kanban or in this scenario, Trello, is comprised of 3 categories. “To do”, “Doing” and “Done”. Team members will be able to organize and categorize their tasks accordingly. Every task will have a name assigned to it to know who would be responsible for it. The product and sprint backlog would be shared with the product owner so he/she would have access to track the progression of the team.

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A Sprint board would be used to track all the tasks assigned to a particular sprint, and this board would be re-used for every sprint, and renamed as appropriate (eg Sprint 1, Sprint 2…) Tasks completed in previous sprints would be placed in a “Completed” section of the board with labels indicating which sprint the tasks belonged to. Tracking tasks in this manner would help to minimise the number of boards the team has to deal with and keep track of.

Our team has also decided to use burndown charts to visualise the past progress of the team. A burndown chart is a graph that plots remaining tasks against time, so one can see how fast or how slow the team is working, known as the velocity of the team. These burndown charts are generated manually at the end of each sprint to provide the team with graphical feedback on how the team had progressed.

**An example of Trello application with Kanban style**

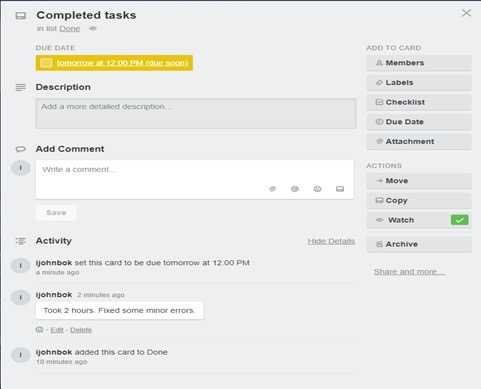
# **Storing and managing backlogs**

Backlogs are a crucial aspect, allowing members to manage backlogs simultaneously, as well as ensuring all team members are aware of the uncompleted tasks remaining. After discussion among the team members, we have decided to use Trello to store and manage backlogs. We have separated the backlogs section into two parts, the product backlog and the sprint backlog.

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Product backlog consists of all the tasks needed to be completed, while the sprint backlog contains all the tasks needed to be completed within that sprint, which our team discussed and agreed on it being a week long. All members are able to check the work assigned to every individual through the backlogs.

# **tracking time spent on tasks**

Keeping track of time spent on project tasks is also essential to prevent extending deadlines. Every member should always take note how long it takes to complete a task. For example, team member A records down the time taken to complete a specific task which is roughly 6 hours while team member B would take 4 days. The main purpose of this is to notify every member how long it would take to complete a certain task. By doing so, the tasks can be categorized to categories of story points. Tougher tasks can have more story points to it while easier tasks will have lesser story points. During stand up meetings, team members can discuss with each other and at least every member have some knowledge on the progression of the member if they are taking too long or they are on par with the goalset to complete the tasks on time.

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Time taken to complete

The task is completed

Due date for task