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Final Report

Project Design and Management 300

# Abstract

Max 500 words / 1 page. Brief summary of contents and report structure. How work was performed and main outcomes.

This report has been developed for the project client to address the key aspects of the project implementation, design and other project management issues.

**Specify access details + links somewhere**

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**INSERT CUSTOM TABLE OF FIGURES HERE WHEN FINISHED.**

# Introduction and Objectives

Max 2 pages. What report is about. Project objectives, constraints, scope and delimitations. Approach used to complete work. Structure of report. Set the scene for rest of report (context).

# Background

Max 5 pages. Describe initial project management approach and plan. Discuss solution approaches considered. Describe other similar systems and possible solutions you have looked at. Describe tools considered for development and for SCRUM. Provide reason for choice of tools (Salami made us). Pictues of project mockup.

The requirements volatility was quite low throughout the project, with minimal changes to the requirements by the product owner after the initial specification.

Talk about pivotal tracker.

# Product Backlog

Upon receiving the project requirements from the client, the requirements were converted into a collection of 46 user stories. These stories were broken down into groupings for simplicity and to improve modulation when the stories were implemented. The following major groupings were applied to the user stories:

* Account
* Administration
* Commenting
* Posting Submissions
* Viewing Submissions
* Voting
* Rewards

Each user story was allocated into a specific grouping, with each Sprint generally focusing on completing one or two groups of stories. The group allocations for all user stories is displayed below. For a more detailed overview of the product backlog and a breakdown of stories completed per sprint, see the attached file exported from *Pivotal Tracker* in Appendix B.

## 3.1 Account

* As a User, I want to login to the platform so that I can post a submission.
* As a User, I want to logout of my account so that nobody else can access my account.
* As a User, I want to create an account so that I can use the platform.
* As a User, I want to be able to change my password so that I can keep my account secure.
* As a User, I want to access user profile so that I can view specific user’s details.

## 3.2 Administration

* As an Admin, I want access to a Admin platform so that I can perform administrative actions.
* As an Admin, I want to create user profiles so that users can use my site effectively.
* As an Admin, I want to edit submissions so that I can remove offensive language.
* As an Admin, I want to remove submissions so that I can remove inappropriate submissions
* As an Admin, I want an Admin tag so that other Users see my account as an Admin.

## 3.3 Commenting

* As a User, I want to delete my improvements so that I can remove my improvement.
* As a User, I want to edit my improvements so that I can fix spelling errors.
* As a User, I want to delete my comments so that I can remove my comment.
* As a User, I want to edit my comments so that I can fix spelling errors.
* As a User, I want to suggest improvements to a submission so that I can improve upon an idea.
* As a User, I want to comment on a submission so that I can voice my support of the idea.
* As an Admin, I want to be able to delete comments because they may contain inappropriate material.
* As an Admin, I want to edit comments so that I can remove offensive language.
* As an Admin, I want to delete improvements so that I can remove inappropriate improvements.

## 3.4 Posting Submissions

* As a User, I want to post a submission so that I can put my idea onto the platform.
* As a User, I want to delete my submission so that I can remove my submission.
* As a User, I want to edit my submission so that I can fix spelling errors.
* As a User, I want to add images to my submission so that I can add relevant images to my submission.
* As a User, I want to add videos to my submission so that I can add relevant videos to my submission.

## 3.5 Viewing Submissions

* As a User, I want to view existing submissions so that I can see all submissions posted.
* As a User, I want to search all submissions so that I can find one relevant to my field of study.
* As a User, I want to sort submissions based on popularity so that I can see the most popular submissions.
* As a User, I want to sort submissions based on date so that I can see the newest submissions.
* As a User, I want to sort submissions based on views so that I can see the most popular submissions.
* As a User, I want to categorize my submissions so that other users can find it easily.
* As a User, I want to view submissions based on category so that I can view relevant submissions.

## 3.6 Voting

* As a User, I want to down-vote on submissions so that I can acknowledge submissions I dislike.
* As a User, I want to up-vote on submissions so that I can support submissions I like.
* As a User, I want to see the total votes for a submission so that I can see how popular it is.
* As a User, I want to up-vote on improvements so that I can support improvements I like.
* As a User, I want to down-vote on improvements so that I can acknowledge improvements I dislike.
* As a User, I want to only vote once for a submission so that voting is fair and equal for all users.
* As a User, I want to un-vote on submissions so that I can change my mind on voting.

## 3.7 Rewards

* As a User, I want other users to see my level when I post so that I can show off my level.
* As a User, I want to gain levels based on my points so that I am rewarded for utilizing the platform.
* As a User, I want to gain points when my submission receives votes so that I am rewarded for good work.
* As a User, I want to gain points for posting improvements so that I am encouraged to post again.
* As a User, I want to gain points for posting submissions so that I am encouraged to post again.
* As a User, I want to gain points for voting on submissions so that I am encourages to vote again.

# Overall Design

Max 10 pages

## 4.1 Design Details

*Relevant design details. Uml, er diagram etc. provide reasons for choices. Report changes to user stores due to the design process. So many ER diagrams + relations*

*UI design, CSS and template design*

* Design Introduction
* Backend design
  + Submissions
    - Creation
    - Deletion
    - Modification
  + Comments/improvements
  + Voting
  + Reward system
* UI design
  + Goals
  + Design change over time
  + Final design

After initially reading through and understanding the requirements for the project, each user story was created and placed in a sub-group: admin, user accounts, submissions, voting, commenting or rewards.

It was decided quite early on in the project to implement the website using the Python web-framework, Django. This would allow for easy to use and powerful admin features, along with well-defined ways to implement all the functionality deemed necessary for the project to work (ADD MORE REASONS WHY USED DJANGO). Django’s model system seemed very applicable for creating objects such as users, submissions and comments which were central to the overall design.

Figure x shows the UML diagram for the design of the project.

## Back-end

One of the major design issues that was central to the project as a whole was the submission. The submission model needed to store information about a user-generated idea including the title, author, category, the idea itself and links to external webpages. The majority of the project features in some way interact with the submission, be that viewing, commenting on, suggesting improvements or voting. As well, submissions had to be both editable and removable by the correctly privileged users/admin.

We wanted a user to be able to create an account storing basic personal and contact information that could be used to identify the user and for them to participate in submitting, commenting and voting on submissions. A user would have to be currently logged onto the system to be able to submit, comment and vote on submissions. However, submissions could be viewed by anyone of the general public without requiring an account.

## User Interface

The interface design went through numerous iterations before eventually settling on the current design.

The main aims of the interface design were to create a sleek, modern interface which was easy to navigate and to use.

## 4.2 Implementation Details

Document the implementation including tasks, effort, features and task distribution (planned and actually completed). Screenshots of functionality. Changes to initial design. What testing was done? \*lol none.

# Project Review

Max 5 pages. Post-mortem discussion on product development and SCRUM process. What went right, what went wrong, what was learned (so wanky). Suggestions for improving project experience (for future students).

# Conclusions and Summary

Max 2 pages. Summary of what report has covered. Describe what was achieved in product development. Describe what was gained in project experience. Suggestions to product owner to consider in future releases. Expansions!

# References

Grellier, Jane, and Veronica Goerke. 2010. *Communication Skills Toolkit*. 1st ed. South Melbourne, Vic.: Cengage Learning.

"Pivotal Tracker | Agile Project Management". 2016. *Pivotal Tracker*. https://www.pivotaltracker.com.

# 8.0 Appendices

So many screenshots. Pivotal analytics and csv of everything. Complete product backlog, when stories where started and completed etc.

## 8.1 Appendix A: Sprint Reports

The full Sprint reports for sprints 1 through 4 have been included as an attachment to this final report.

## 8.2 Appendix B: Pivotal Tracker Backlog

All data tracked within the issue-tracking tool *Pivotal Tracker* has been included as an attachment to this final report.