**Content Hub**

Project Plan

March 30, 2020

Version 1.0

Team Galvatron

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# Document Information

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Version** | **Status** | **Prepared by** | **Comments** |
| Jan 21, 2020 | 0.1 | Start | Team Galvatron | Initial Document |
| Mar 30, 2020 | 1.0 | Final submission | Team Galvatron | Final Document |

**Document Control**

|  |  |  |  |
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# Overview

This document provides an overall project plan including project schedule, detailed description of each phase, and Gantt chart. We will be following the waterfall model for this project.

# Critical Path

Our critical path is as follows:

1. Gathering Requirements (20 hours)
2. Finalizing Design (30 hours)
3. Environment Setup (10 hours)
4. Main Development Features

* Authentication system (10 hours)
* Main page (20 hours)
* Approval system (20 hours)
* Admin panel (20 hours)
* Scheduler (20 hours)
* RSS Feed (20 hours)
* Integration (10 hours)

1. Testing (30 hours)
2. Deployment (20 hours)

Gathering requirements must be done prior to the rest of the critical path to ensure that we have a proper understanding of the project expectations. However, throughout the rest of the critical path, requirements may be subject to modification and thus would be ongoing. Next, before starting environment setup or development, the design needs to be finalized. We estimate that this will take 30 hours, as we need to consider and research into different tools that can be used, summarize the tradeoffs, and decide as a team what to use in our project. Next, setting up the environment will need to occur before development and testing. We may do deployment in parallel to environment setup, as setting it up in advance would be beneficial in showing and getting feedback from our sponsor and TA. Next, development and testing will take the longest time in our critical path. Both can be done in parallel, as it is important to test and validate things work, as we develop.

# Project Schedule

## Phase 1: Documentation

**1.1: Terms of Reference**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A high level contract amongst the key stakeholders of the project that outlines the project’s details, logistics and scope. | |
| **Estimated Hours** | | | 5 | |
| **Task Owner** | | | All members | |
| **Duration** | | | 1/7/2020 - 1/14/2020 | |

**1.2: Project Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A living document for the team to refer to in order to understand the projects timeline, deliverables and task responsibilities. | |
| **Estimated Hours** | | | 5 | |
| **Task Owner** | | | All members | |
| **Duration** | | | 1/14/2020 - 1/22/2020 | |

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## Phase 2: Requirements Gathering

**2.1.1: Requirements Document - Research**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | This entails the research that is required to be done on technical requirements, business and product requirement feasibilities as well as potential. It also provides a clear framework to determine if parts of the project have been successfully completed. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | All members | |
| **Duration** | | | 1/22/2020 - 1/27/2020 | |

**2.1.2: Requirements Document - Acceptance Criteria**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | The development of a set of conditions to verify that portions of the software meet the project requirements that is accepted by users. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | All members | |
| **Duration** | | | 1/23/2020 - 1/30/200 | |

## Phase 3: Design

**3.1.1: Design Document - Database Entity Relationship Diagram**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A diagram that displays the relationships between data objects that will be recorded. | |
| **Estimated Hours** | | | 5 | |
| **Task Owner** | | | Vickie Yen, Pengwei Zhou | |
| **Duration** | | | 1/31/2020 - 2/6/2020 | |

**3.1.2: Design Document - System Architecture Diagram**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A diagram that depicts the relationships between all technical resources that will be utilized in the development of the project. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | All members | |
| **Duration** | | | 1/31/2020 - 2/6/2020 | |

**3.1.3: Design Document - API Specification**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A document that describes the APIs from external sources that the project will utilize in the implementation of the project. | |
| **Estimated Hours** | | | 5 | |
| **Task Owner** | | | David Guo, Tyler Nee, Tony Kong | |
| **Duration** | | | 1/31/2020 - 2/6/2020 | |

**3.1.4: Design Document - Front-end Website Wireframe Mockups**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | A visual guide that shows our planned website layout. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | Tyler Nee, Peter Han, Yuting Wen | |
| **Duration** | | | 1/31/2020 - 2/6/2020 | |

## Phase 4: Development

**4.1: Environment Setup**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Setup development environment and initial database tables. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 2/7/2020 - 2/12/2020 | |

**4.2: Authentication system**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Implement login functions for both user and admin. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | Yuting Wen, Peter Han | |
| **Duration** | | | 2/13/2020 - 3/13/2020 | |

**4.3: Main page**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Main page displaying published content with search functionality. | |
| **Estimated Hours** | | | 20 | |
| **Task Owner** | | | Peter Han, Vickie Yen | |
| **Duration** | | | 2/13/2020 - 3/31/2020 | |

**4.4: Approval System**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Page where approvers/administrators can approve content that is submitted by users. | |
| **Estimated Hours** | | | 20 | |
| **Task Owner** | | | Vickie Yen, David Guo | |
| **Duration** | | | 2/20/2020 - 3/31/2020 | |

**4.5: Admin Panel**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Panel for administrators to change system settings. | |
| **Estimated Hours** | | | 20 | |
| **Task Owner** | | | Tony Kong, David Guo | |
| **Duration** | | | 2/21/2020 - 3/31/2020 | |

**4.6: Scheduler**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | There will be two different schedulers. One scheduler will be in charge of sending out emails to users to notify them about newly published articles. Another scheduler will be in charge of checking the approval status of articles. | |
| **Estimated Hours** | | | 20 | |
| **Task Owner** | | | David Guo | |
| **Duration** | | | 2/25/2020 - 3/31/2020 | |

**4.7: Integration**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Connect together all the individual components. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | Tyler Nee, Pengwei Zhou | |
| **Duration** | | | 2/25/2020 - 3/31/2020 | |

## 

## Phase 5: Testing

**5.1: Unit Tests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Write tests for individual components of code. | |
| **Estimated Hours** | | | 15 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 2/13/2020 - 4/10/2020 | |

**5.2: Integration Tests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Write tests for combined components of code. | |
| **Estimated Hours** | | | 10 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 2/25/2020 - 4/10/2020 | |

**5.3: Test Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Document that outlines the testing strategy to ensure all acceptance criteria are met with high standards. | |
| **Estimated Hours** | | | 5 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 3/2/2020 - 4/10/2020 | |

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## Phase 6: Deployment

**6.1: Deploying web application**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Deploy web application to server. | |
| **Estimated Hours** | | | 20 | |
| **Task Owner** | | | David Guo | |
| **Duration** | | | 2/16/2020 - 3/20/2020 | |

## Phase 7: Maintenance

**7.1: Manual Testing**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Manual test product using our test plan as a guideline. | |
| **Estimated Hours** | | | 15 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 3/23/2020 - 4/3/2020 | |

**7.2: Bug fixes**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Fix any open issues found through manual testing or automation. | |
| **Estimated Hours** | | | 15 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 3/23/2020 - 4/3/2020 | |

**7.3: Demo preparation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Description** | | | Prepare script and presentation for the final demo. | |
| **Estimated Hours** | | | 15 | |
| **Task Owner** | | | All Members | |
| **Duration** | | | 3/26/2020 - 4/7/2020 | |

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# Gantt Chart

For a more detailed look at our Gantt Chart, follow this link:

<https://docs.google.com/spreadsheets/d/1qPjnJgRB6jOxbqzeDSf4Q9zfNCMzFkRW3hSdLdnd4DQ/edit?usp=sharing>

