



Content Hub

Project Plan

March 30, 2020
Version 1.0

Team Galvatron

David Guo	57734162
Pengwei Zhou	73569758
Peter Han	14912166
Tony Kong	47078150
Tyler Nee	22705157
Vickie Yen	13358156
Yuting Wen	44625168



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

Role	Name	E-mail	Telephone
Project Manager	Tyler Nee	tyler.nee@gmail.com	778-323-4899

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)
5. Testing (30 hours)
6. 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

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 - 1/30/2020

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

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

Gantt Chart

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

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

GALVATRON GANTT CHART

PROJECT TITLE	Content Aggregator
PROJECT MANAGER	Tyler Nee

WBS NUMBER	TASK TITLE	TASK OWNER	Phase 4: Development														Phase 5: Testing										Phase 6: Deploy					Phase 7: Final Phase												
			WEEK 6				WEEK 7				WEEK 8				WEEK 9					WEEK 10					WEEK 11					WEEK 12					WEEK 13					WEEK 14				
			M	T	W	R	F	M	T	W	R	F	M	T	W	R	F	M	T	W	R	F	M	T	W	R	F	M	T	W	R	F	M	T	W	R	F	M	T	W	R	F		
1	Documentation																																											
2	Requirements Gathering																																											
3	Design																																											
4	Development																																											
4.2	Authentication System	Yuting, Peter																																										
4.3	Main Page	Peter, Vickie																																										
4.4	Approval System	Vickie, David																																										
4.5	Admin Panel	Tony, David																																										
4.6	Scheduler	David																																										
4.7	Integration	Tyler, Pengwei																																										
5	Testing																																											
5.1	Unit Tests	All																																										
5.2	Integration Tests	All																																										
5.3	Test Plan	All																																										
6	Deployment																																											
6.1	Deploying web application	All																																										
7	Maintenance																																											
7.1	Manual Testing	All																																										
7.2	Bug Fixes	All																																										
7.3	Demo Preparation	All																																										

Legend	
Phase 1: Documentation	
Phase 2: Requirements	
Phase 3: Design	
Phase 4: Development	
Phase 5: Testing	
Phase 6: Deployment	
Phase 7: Maintenance	