

Project Plan

Background

Living in the world of big data, data collection seems never be a problem for people anymore. Whatever we search, there are always plenty of data on the internet. However, the existence of astonishing amount of data creates additional difficulties on pinpointing the information we desire among the sea of data. Aiming to settle this problem, our group decides to develop a program which takes articles in plain text as input, and makes accurate predictions about the classification of this article. By attaching classification information to articles, people will be able to locate their desired articles with less trouble.

Project Description

Firstly, as a student majored in Computer Science, our program focuses on classification of technology news. Moreover, to improve the correctness of clustering result, we will implement various data mining techniques during development. Not only can user classify article, they can also establish their own clustering dictionary and categories with the help of our program.

Goals and Objectives

Nowadays, huge amount of information come out everyday. People are busy and may not be able to get every piece of information, so we need a program that can make it easy for us to

locate our desired posts, and can provide us with concise summarisations for news posts. This may improve the efficiency of getting information in this information world.

- To make it easy for users to locate their desired post
- To provide users concise summarisations for news posts

Scope

Scope Definition

The project will introduce the following technology

- Key words dictionary generation
- Information Gain Calculating
- Automatic sorting

Stakeholders

Stakeholder Register				
Name	Project Role	Internal/External	Position	Contact Information
Mingyang WA	Project Manager	Internal	Manager	mingywang3-c@my.cityu.edu.hk
Jie PU	Assistant Project M	Internal	Manager	jiepu2-c@my.cityu.edu.hk
Zhou FANG	Configuration Mana	Internal	Manager	zfang6-c@my.cityu.edu.hk
Xikang FENG	Team Member	Internal	Developer	xikanfeng2@gmail.com
Yiji WANG	Team Member	Internal	Developer	yjiwang3-c@my.cityu.edu.hk
Renjie ZHU	Team Member	Internal	Developer	renjiezhu2-c@my.cityu.edu.hk
Dr. W.K.Chan F	Project Supervisor	External	President	wkchan@cityu.edu.hk

Methodology

Software Development Methodology

In this project, we chose test-driven development as our development methodology. It is the method that divide the project into small test cases, which drive the software to pass all the test cases. This method can lead to simple designs in this project.

Development tools

We use several development tools in this project. The main development software is Eclipse, because we use Java as the language of our software. Additionally, we chose Github for easier configuration management, which will control the version of the software, and reduce the possibility of chaos.

Milestones

Project charter signed by Sep. 12th, 2014

Project plan approved by Sep. 19th, 2014

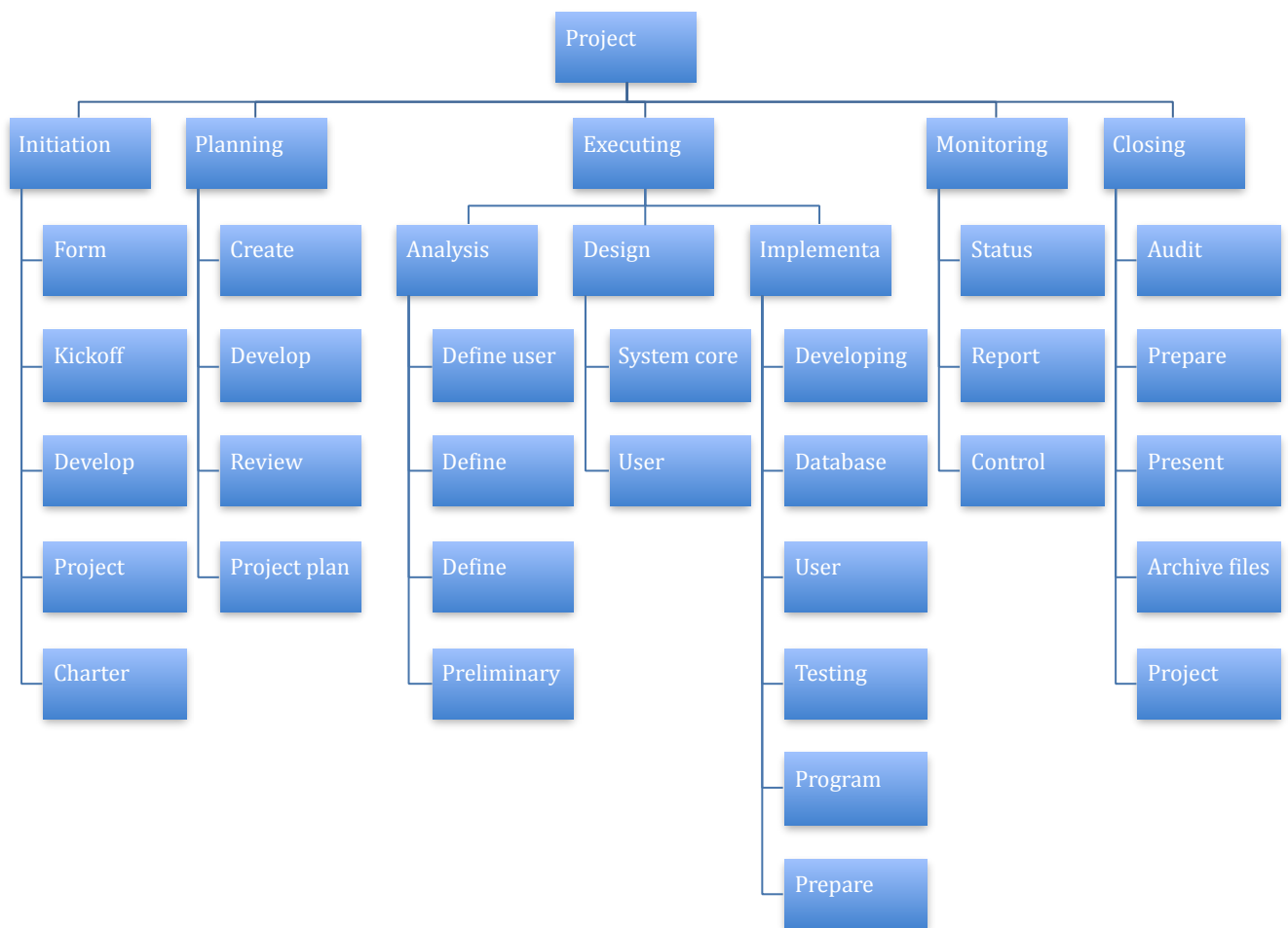
Program core development by Oct. 11th, 2014

Testing completed by Nov. 1st, 2014

Project completed by Nov. 22nd, 2014

Work Breakdown Structure

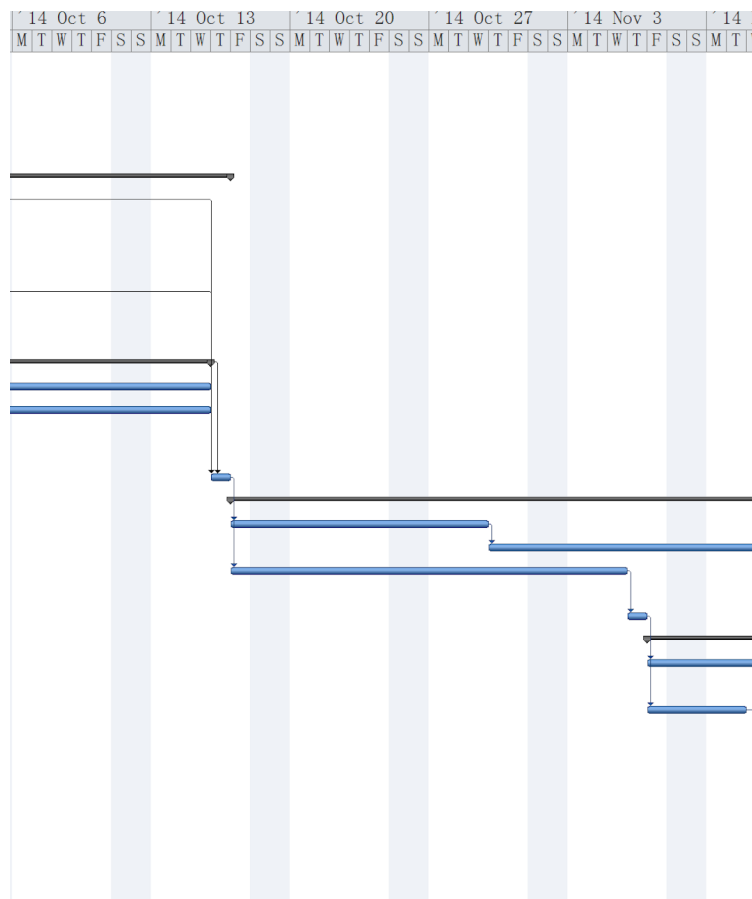
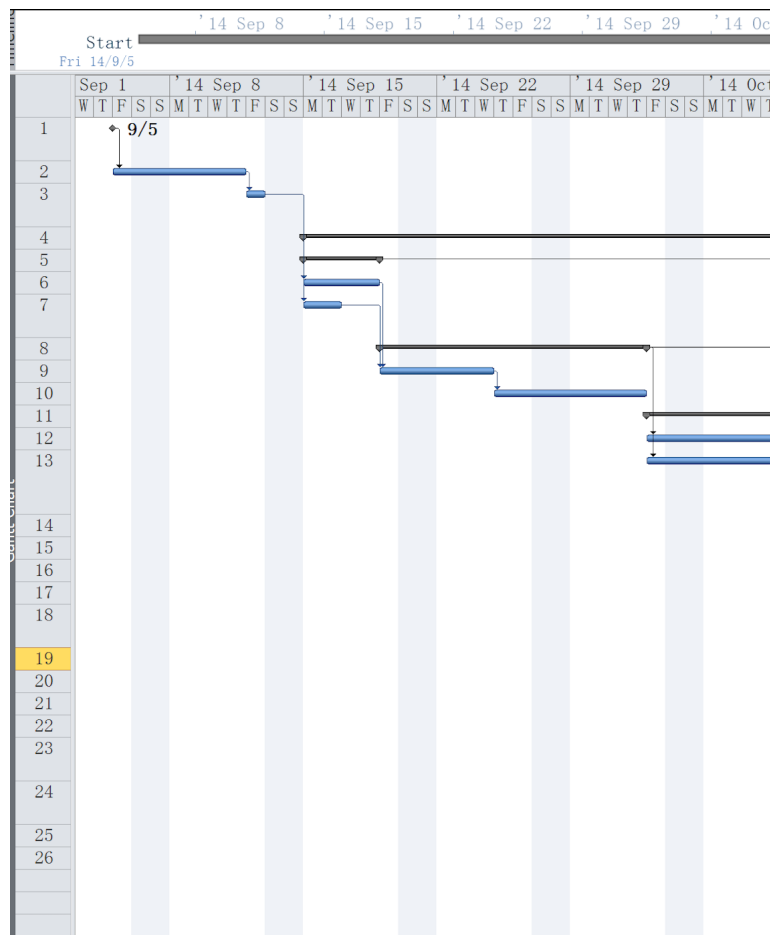
1. Project
 - 1.1. Initiation
 - 1.1.1. Form product team
 - 1.1.2. Kickoff meeting
 - 1.1.3. Develop project charter
 - 1.1.4. Project stakeholder analysis
 - 1.1.5. Charter signed
 - 1.2. Planning
 - 1.2.1. Create preliminary scope statement
 - 1.2.2. Develop project plan
 - 1.2.3. Review project plan
 - 1.2.4. Project plan signed
 - 1.3. Executing
 - 1.3.1. Analysis
 - 1.3.1.1. Define user requirement
 - 1.3.1.2. Define system requirement
 - 1.3.1.3. Define specific functionality
 - 1.3.1.4. Preliminary system development
 - 1.3.2. Design
 - 1.3.2.1. System core design
 - 1.3.2.2. User interface design
 - 1.3.3. Implementation
 - 1.3.3.1. Developing environment setup
 - 1.3.3.2. Database setup
 - 1.3.3.3. User interface development
 - 1.3.3.4. Testing
 - 1.3.3.5. Program finalizing
 - 1.3.3.6. Prepare user instruction
 - 1.4. Monitoring and controlling
 - 1.4.1. Status report
 - 1.4.2. Report performance
 - 1.4.3. Control changes
 - 1.5. Closing
 - 1.5.1. Audit procurement
 - 1.5.2. Prepare report
 - 1.5.3. Present software
 - 1.5.4. Archive files
 - 1.5.5. Project complete



Project Schedule

Fri 14/9/5		<div> <div>' 14 Sep 8</div> <div>' 14 Sep 15</div> <div>' 14 Sep 22</div> <div>' 14 Sep 29</div> <div>' 14 Oct 6</div> <div>' 14 Oct 13</div> <div>Sun 14/10/19</div> </div>					
Start Fri 14/9/5							
	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resources
1		Project Kickoff Meeting	0 days	Fri 14/9/5	Fri 14/9/5		
2		Requirement Gathering	5 days	Fri 14/9/5	Thu 14/9/11	1	
3		Project Charter Signoff	1 day	Fri 14/9/12	Fri 14/9/12	2	
4		Project Iteration 1	24 days	Mon 14/9/15	Thu 14/10/16		
5		Project Plan	4 days	Mon 14/9/15	Thu 14/9/18		
6		WBS Setup	4 days	Mon 14/9/15	Thu 14/9/18	3	
7		Gantt Chart Preparation	2 days	Mon 14/9/15	Tue 14/9/16	3	
8		Design	10 days	Fri 14/9/19	Thu 14/10/2		
9		System Design	4 days	Fri 14/9/19	Wed 14/9/24	6, 7	
10		Detailed Design	6 days	Thu 14/9/25	Thu 14/10/2	9	
11		Implementation	9 days	Fri 14/10/3	Wed 14/10/15		
12		Implement Dictionary	9 days	Fri 14/10/3	Wed 14/10/15	8	
13		Implement Information Gain Calculator	9 days	Fri 14/10/3	Wed 14/10/15	8	
14		Release 1	1 day	Thu 14/10/16	Thu 14/10/16	5, 8, 11	
15		Project Iteration 2	19 days	Fri 14/10/17	Wed 14/11/12		
16		Design Refractoring	9 days	Fri 14/10/17	Wed 14/10/29	14	
17		Code Refractoring	10 days	Thu 14/10/30	Wed 14/11/12	16	
18		Preparing documentation	14 days	Fri 14/10/17	Wed 14/11/5	14	
19		Release 2	1 day	Thu 14/11/6	Thu 14/11/6	18	
20		Project Iteration 3	19 days	Fri 14/11/7	Wed 14/12/3		
21	英	Design Refractoring	8 days	Fri 14/11/7	Tue 14/11/18	19	
22		Code Refractoring	6 days	Wed 14/11/19	Wed 14/11/26	21	
23		Preparing User Manual	3 days	Fri 14/11/7	Tue 14/11/11	19	
24		Documentation Finalizing	4 days	Thu 14/11/27	Tue 14/12/2	22, 23	
25		Release 3	1 day	Wed 14/12/3	Wed 14/12/3	24	
26		Project Finish	1 day	Thu 14/12/4	Thu 14/12/4	25	

Gantt Chart



Nov 3					' 14 Nov 10					' 14 Nov 17					' 14 Nov 24					' 14 Dec 1					' 1	
W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M

