

Duck Tracker 2.0

Project 2 Plan

Group 6 -

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6/1/2020

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1. Project Plan Revision History

This section provides a log of changes to this document. Changes made should be reviewed by all team members.

Date - This is the specific day that the change was made to this document.

Author - This is the person responsible for making that change in the form of initials.

Description - This is a brief overview of what changes are made in the entry.

Date	Author	Description
5/14/2020	dz,cw,nh	Created initial document.
5/14/2020	cw	Edited and revised document.
6/1/2020	dz,cw,nh	Edited and revised document.

2. Management Plan

This section describes the management plan of how group 6 will manage the project throughout the process of developing Duck Tracker 2.0.

2.1 Team Organization and Responsibilities

Our team, Group 6, members consist of the following people:
Nick Henderson, Wentian Lin, Chris Wycoff, Hongtao Yang, Dennis Zipprich.
Group 6's major decisions will be made democratically.

All team members are responsible for reviewing and editing technical documents. Each team member will also be assigned tasks outlined in section along with a secondary team member to ensure tasks are done completely and on time.

There are members of group 6 who have english as a second language. Efforts will be made to translate their thoughts and opinions into high quality english writing.

Team members are expected to attend regularly scheduled team meetings when needed. Team members will also perform impromptu subgroup meetings when necessary to accomplish assigned tasks. See section 2.2 for team meeting logistics.

All team members will have a thorough understanding of all aspects of Duck Tracker. Team members are expected to ask questions when they are unclear on any aspect of the project. It is the goal for the project to be easy to use, maintain, and test; and as such, group members should know of each module included with the system.

Team members will cite all sources used in aid of project development in applicable project documents. Sources will be defined as outside help, documentation, research papers, articles, how to guides and items of similar nature.

2.2 Team Meeting Logistics

Group 6, with everybody present, will meet two times a week, Tuesday and Friday, at 1300 via Zoom meeting. These meetings will consist of top level progress reports of the project and what are currently the most pressing issues on the project and project logistics. Team members are expected to stay on topic and make efficient use of this time.

Team subgroups will also meet outside of the times listed above to ensure smooth and ontime development of Duck Tracker 2.0 software modules. These impromptu meetings may happen at time deemed necessary by group members to accomplish project related tasks.

3. Work Breakdown Schedule

This section will outline the work breakdown schedule. This will include specific items in the critical path and when major milestones are met.

3.1 Milestone in the Critical Path

There will be 10 major milestones in this project, these milestones will all be a part of the critical path in delivering Duck Tracker on time. Each Milestone will have a description of the milestone, a deliverable if possible (n/a for not applicable), due date for milestone in mm/dd/yyyy, time (24hr) format, and completion date (n/a if not yet achieved).

Milestones 3, 4, 5, 6, 7 may be done in any order, these milestones are where team members will begin core development of assigned modules. All other milestones must be complete in order to ensure delivery of Duck Tracker 2.0.

Milestone 1 -

Description: All group members review the project and requirements, all members understand what is required of the project.

Deliverable(s): SRS.pdf, SDS.pdf, Project_Plan.pdf

Due date: 5/14/2020, 0900

Completion date: 5/13/2020, 2000

Milestone 2 -

Description: All group members review and understand roles and required deliverables outlined in section 3.2 of this document. Begin software development.

Deliverable(s): In-class presentation of Duck Tracker

Due date: 5/15/2020, 1300

Completion date: 5/15/2020, 1300

Milestone 3 -

Description: Initial development of Android application is completed.

Deliverable: Stand alone Android application software module

Due date: 5/24/2020, 1700

Completion date: 5/23/2020, 1600

Milestone 4 -

Description: Initial development of MySQL database complete.

Deliverable(s): Stand alone mySql database software module

Due date: 5/24/2020, 1700

Completion date: 5/23/2020, 1600

Milestone 5 -

Description: Initial development of Linux Apache MySQL PHP (LAMP) Server (IX DEV)

Deliverable(s): Stand alone LAMP server software module

Due date: 5/27/2020, 1700

Completion date: 6/1/2020, 2200

Milestone 6 -

Description: initial development of PHP scripts to bridge between phone app(s) and MYSQL software modules complete.

Deliverable(s): Stand alone PHP script files.

Due date: 5/24/2020, 1700

Completion date: 5/24/2020, 1700

Milestone 7 -

Description: All applicable technical documentation is completed

Deliverable(s): SRS.pdf, SDS.pdf, Project_Plan.pdf, README.txt,

Programmer_Documentation.pdf, Installation_Instructions.pdf, User_Documentation.pdf

Due date: 6/1/2020, 2200

Completion date: 6/1/2020, 2200

Milestone 8 -

Description: All software modules work as separate modules that accepts injected test data.

Deliverable(s): Each software module works independently

Due date: 5/24/2020, 1700

Completion date: n/a

Milestone 9 -

Description: All software modules work together as one complete software system

Deliverable(s): Initial working version of Duck Tracker 2.0

Due date: 5/27/2020, 1700

Completion date: 5/27/2020, 1700

Milestone 10 - Software is delivered

Description: Duck Tracker 2.0 is delivered to complete project

Deliverable(s): Duck Tracker 2.0, in-class presentation of Duck Tracker 2.0 on 6/2/2020, 1000

Due date: 6/1/2020, 2200

Completion date: 6/1/2020, 2200

3.2 Personnel Assignment

Below is a GANTT chart that depicts group responsibilities and tasks associated with Duck Tracker 2.0. Group members will follow this chart to ensure on-time delivery of Duck Tracker 2.0. If members cannot adhere to the project timeline, they must notify the team immediately and request assistance where needed.

Team members will report progress during each bi-weekly meeting, in between those meetings it is the responsibility of the secondary team member to conduct periodic spot checks on accomplished work.

Development of software modules may be done in a fashion that allows group members to provide feedback and see progress.

As a reminder group members are as follows:

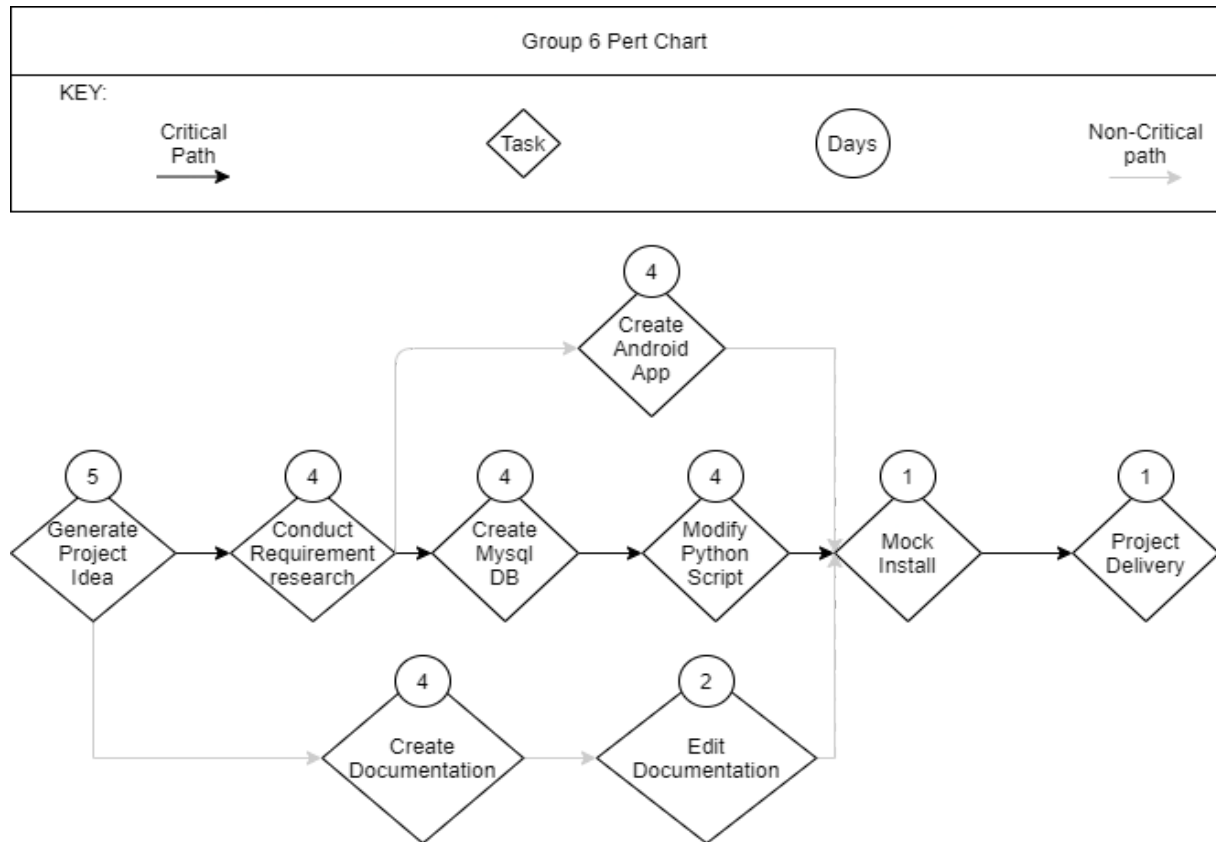
- Nick Henderson (nh), displayed in orange
- Wentian Lin (wl), displayed in purple
- Christopher Wycoff (cw), displayed in blue
- Hongtao Yang (hy), displayed in green
- Dennis Zipprich (dz), displayed in yellow
- All team members (all), displayed in red

Group 6 Division of Responsibility as of 5/14/2020																									
Week 5/4/2020					Week 5/11/2020					Week 5/18/2020					Week 5/25/2020					Week 6/1/2020					
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	
Research Requirements						TM	TM				TM				TM		TM			TM		CP			
		Assit with Documentation														System debugging									
																	Mock install			D					
research LAMP server																									
	research Android HTTP																								
prototype of PHP and Android connect																									
										Develop Android app						PD									
										Develop PHP/LAMP server															
										Develop MySql DB						Module Integreation									
Research Install Pipeline										Develop install scripts															
										Develop conversion scripts							PD								
										Assist dev. of MySql DB						Module Integreation									
Generate, Edit, and Revise Documentation																									
				Research LAMP, PHP, MySql server																					
										Assist dev. PHP/LAMP svr						Module Integreation									
				Reasearch MySQL																					
				Reasearch PHP/LAMP																					
								Module tests																	
				Reasearch MySQL																					
				Reasearch PHP/LAMP																					
								Module tests																	
key																									
dz	nh	cw	TM = Team Meeting D = Product Delivery CP = Class Presentation PD = Write Programmer Doc.																						
hy	wl	all																							

4. Build Plan

Duck Tracker 2.0 will be rebuilt to be as modular as possible, each module will be independently built. Our group will be assigned separate modules to develop and implement. Each module will have one primary member and one secondary member responsible, this is to ensure that team members complete required modules. If it is needed the secondary team member will provide assistance when needed to the primary member.

The following Pert chart outlines the critical path in development of Duck Tracker 2.0



5. References

Hans van Vliet. (2008). *Software Engineering: Principles and Practice*, 3rd edition, John Wiley & Sons.