

GNG1103

University of Ottawa: Faculty of Engineering

Project Deliverable E: Project Plan and Cost Estimate

Sunday, February 28, 2021

Group 4

Daniel Deiros Hernandez (300166389)

Kayla Bariteau (300172515)

Ammar Shakir (300173683)

Sydney Vanderburg (300185690)

Abstract

In the previous deliverable, the group created a design, and a combination of our plans was chosen. In this deliverable, team members devised a project plan to implement our strategy. Team members are to aid in the accomplishment of the deliverables listed in the project plan table. Also, risk assessment and contingency plans were created such that issues that may arise will be addressed quickly and effectively. A bill of materials was established, and it was determined that the final cost is free, or \$0.00 CAD.

GNG1103	1
Abstract	2
Introduction	3
Project Plan and Schedule	3
Risk Assessment and Contingency Plans	4
Bill of Materials	4
Conclusion	4

Introduction

The group members individually designed their AR application concepts in the previous deliverable, sorting recyclable materials. Using these designs, the group collaborated to create an ideal application that would appease every member. Designs were made according to the design criteria, and the group design was benchmarked against other competitors to ensure it would be a contender on the market. The purpose of this deliverable is to devise a plan of attack for the remainder of the project. This project schedule will be followed to ensure the completion of the application. The group will perform a risk assessment and contingency plans to avoid any issues that may arise. Furthermore, a bill of materials will be created and assessed to ensure that the project is under budget.

Project Plan and Schedule

Tasks were assigned with enough time dependencies to make up for any issues during the functions. Dependencies for tasks were chosen based on previous tasks that may affect other tasks' starting or completion. The deliverable owner is the person/people responsible for working and submitting the deliverable.

Number	Task	Dependencies	Owner	Duration	Due Date
1	Deliverable E: Project Schedule and Cost	None	Everyone	Milestone	Feb 28, 2021
2	Research and Development of Unity	None	Everyone	7 days	March 7, 2021
3	Deliverable F: Prototype 1 and Customer Feedback	None	Everyone	7 days	March 7, 2021
4	Client Meeting 3	#2 and #3	Everyone	12 days	March 12, 2021
5	Client Feedback and Iterative Prototyping for Prototype II	None	Everyone	14 days	March 14, 2021
6	Deliverable G: Prototype II and Customer Feedback	None	Everyone	14 days	March 14, 2021

7	Iterative Prototyping for Prototype III	#6	Everyone	28 days	March 28, 2021
8	Deliverable H: Prototype III and Customer Feedback	None	Everyone	28 days	March 28, 2021
9	Deliverable I: Design Day	None	Everyone	38 days	April 8, 2021
10	Deliverable J: Project Presentations	None	Everyone	38 days	April 8, 2021
11	Deliverable K: User Guide	None	Everyone	41 days	April 11, 2021

Table (1) Project Plan and Schedule

Shared

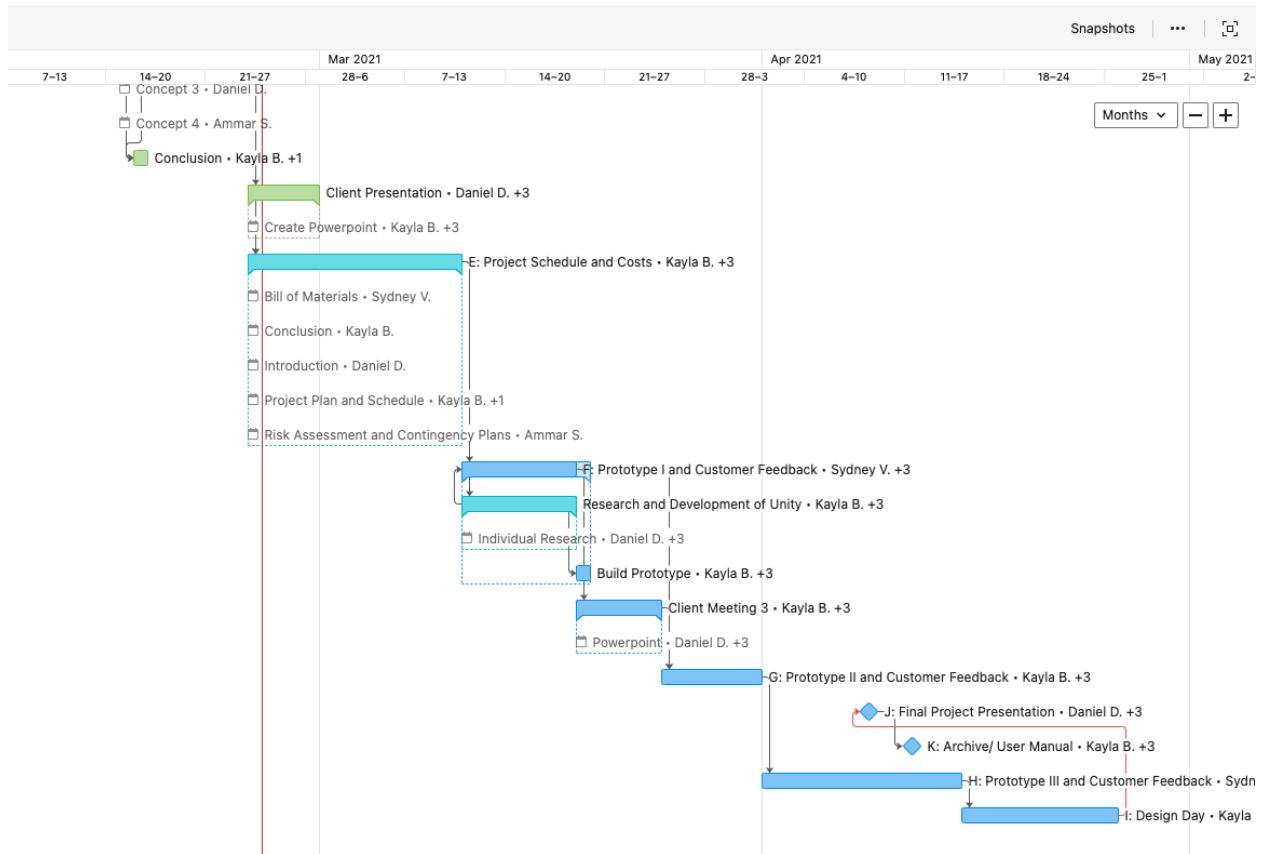


Figure 1.1. Gantt Chart for Project Deliverables



Figure 1.2. List of Project Deliverables

Risk Assessment and Contingency Plans

This section of the document will talk about all the main risks that can affect the project. The table also considers the probability as well as the impact of each risk. The probability and result will be in the range of very high - the most significant impact or the highest probability - to very low - the lowest chance of happening or the least impact. There is a contingency plan for every risk that will be used if any of these risks occur.

Risks	Probability	Impact	Contingency Plan
Issues with Code not working/not compiling	Very High	Moderate	Use online resources and ask people with experience to help the team correct the errors
Losing All Data/Progress	Low	Very High	1 of the team members will back up files locally
Schedule conflicts of team members - University-Based	High	High	Team Members will have to plan their schedules carefully, and any large conflicts such as a midterm should be brought up to all team members.
Internal Group Conflicts	Very Low	Very High	The team will use the conflict solving procedure learned in class to resolve disputes and work together.

Members Not finishing tasks	Low	High	Team members will be reminded of their responsibilities, and if they are still not doing the correct work, action will be taken against them, and the work will be divided among the other team members.
Issues With code IDE	Low	Very High	Have a backup IDE
Restriction in Meetings caused by virtual meeting software	Low	Very High	Have other means of communication and coordinate different ways of having team meetings

Table (2) Risk Assessment and Contingencies

Bill of Materials

Part #	Part Name	Description	Quantity	Unit Cost	Cost (USD)	Cost (CAD)
1	Unity	Software development platform	1	Free	Free	Free
2	Vuforia	Augmented reality software development kit for mobile devices	1	Free	Free	Free
Total					\$0.00 USD	\$0.00 CAD

Table (3) Bill of materials and costs

Conclusion

In this deliverable, the project plan and schedule were widely discussed among team members and organized for the project's remainder. Risk assessment and contingency planning were also discussed and planned for. A bill of materials was also created to estimate the project cost, currently at \$0.00 CAD. Currently, the project is planned out, and with all things considered, will be completed for the assignment due date.