Project Plan Document

Planr, an Agile Project Planning Application

Version 1.0

Submitted in partial fulfillment of the requirements of the degree of Master of Software Engineering

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# Introduction

This is the initial project plan for the Planr application for the Masters of Software Engineering final project.

## 1.1 References

References go here. TBD.

## 1.2 Terms

Terms go here. TBD.

# Work Breakdown Structure

See Figure 1. for preliminary schedule for the project in the form of a Gantt chart.

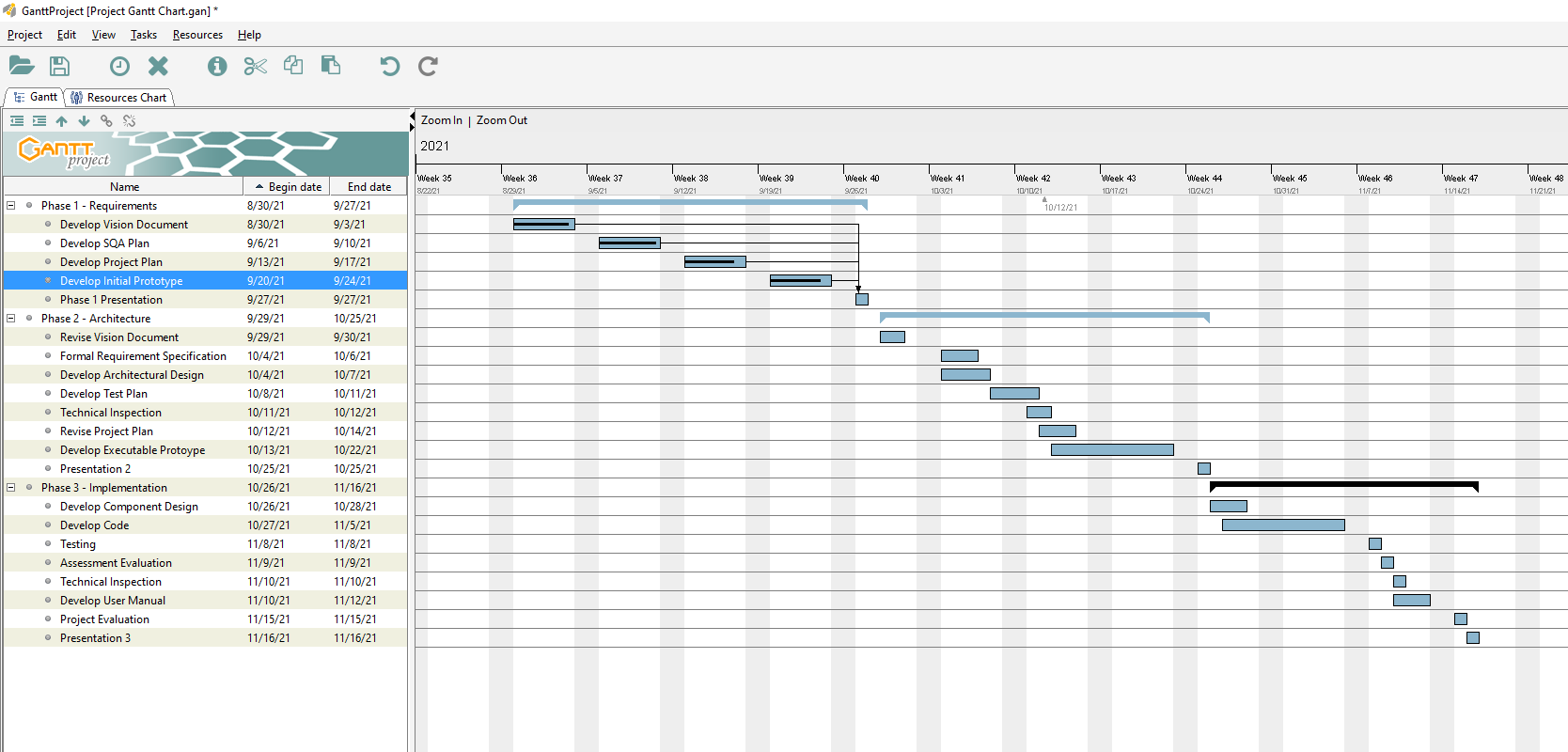


Figure 1. Project Gantt Chart

## 2.1 Inception Phase

The inception phase includes the tasks to prepare a vision document, project plan document, software quality assurance plan document, developing an initial prototype, and presenting the inception phase output to the project supervisory committee.

The prototype will demonstrate a user interface that takes already input data from a project, with features, and resources (engineers) and will output a roadmap in basic form. The initial prototype will have minimal functionality but will demonstrate the schedule output with UI / UX updates to come in later phases.

The inception phase will conclude upon approval of the supervisory committee.

## 2.2 Elaboration Phase

The elaboration phase includes tasks to revise the vision and project plan documents, develop a formal specification of one aspect of the software, prepare the architectural design document, prepare a test plan, implement an executable architecture prototype, conduct a technical inspection of one elaboration phase artifact, and present elaboration phase products to the supervisory committee.

The executable architecture prototype will demonstrate the architecture of the software on the critical requirements.

The elaboration phase will conclude upon approval of the supervisory committee.

## 2.3 Production Phase

The production phase encompasses the tasks to prepare the component design document, develop remaining code and tests, conduct testing, evaluate the project, and present production phase outputs to the supervisory committee.

The production phase presentation will include the production phase outputs and a final demonstration of the software.

The production phase will end upon approval of the supervisory committee.

# Cost Estimate

I have estimated the project costs in effort and time below using COCOMO 2.0 [1][2][3].

## 3.1 COCOMO 2.0

TBD

# Architecture Elaboration Plan

## 4.1 Revise the Vision Document

The student must implement suggested changes recommended by the supervisory committee into the vision document at which time the updated vision document will be submitted to the major professor for approval.

## 4.2 Revise the Project Plan

The student must implement an updated project plan that provides a detailed implementation phase plan and revised cost estimate at which time the updated project plan document will be submitted to the major professor for approval.

## 4.3 Develop a Formal Specification

The student must formally specify the UI (user interface) of the Planr app, including user interactions in UML at which time the formal specification will be submitted to the supervisory committee for approval.

## 4.4 Prepare the Architectural Design Document

The student must develop an architectural design document to the level of abstraction of component interfaces using appropriate diagrams at which time the architectural design document will undergo technical inspection and be submitted to the supervisory committee for approval.

## 4.5 Prepare the Test Plan

The student must prepare a test plan for the software to be executed in the production phase. The test plan must include unit, integration, and component and system-level functional tests at which time the test plan will be submitted to the supervisory committee for approval.

## 4.6 Conduct a Technical Inspection

The student must develop a technical inspection checklist for the architectural design document and coordinate the inspection with the inspectors. Austin Gray and Eric Haslag are the designated technical inspectors for the project. The inspection checklists and letters will be submitted to the supervisory committee for approval.

## 4.7 Implement an Executable Architecture Prototype

The executable prototype will demonstrate the architecture for the critical requirements established in the Planr use cases “CASES HERE”. The demonstration and presentation to the supervisory committee will expose the top technical risks in the project.