

306 Project 1: PLAN

A Formalized Summary of Team Hi-5's Planned
Project Management Strategy

Team Hi-5

Lead: Nathan Hur



Overview

Scope

Hi-5 has been contracted by the client to use parallel processing to create a general purpose solution for the intent of solving difficult scheduling tasks, such as datamining, weather forecast, genomic sequencing, and the like.

Hi-5 has been tasked with producing a working proof-of-concept that can handle approximately 20 tasks with a logical 4-core processor. The client has defined speed as the highest priority, as well as a requirement of having a live visualization tool of the scheduling process.

Time

The client has approached Hi-5 with a fixed and non-negotiable deadline of 29th August 2017. With this in mind, Hi-5 has drafted a project management plan that seeks to balance scope and resources within this timeframe.

Using the critical path from the Network Diagram and the timeframes from the Gantt Model, Hi-5 estimates that the project will be completed on 27th August, satisfying the deadline.

Resources

The resources required by Hi-5 to complete the project are:

- Hi-5 Engineers (6 engineers)
- Hardware: computers/laptops with 4 cores
- Software: Git, Github, IDEs, Libraries, Maven

WBS

Processor Scheduling Project

Plan

Evaluate Different Algorithms

Requirements analysis

Distribution of work

Formalize Plan Management

WBS

Network Diagram

Gantt Chart

Algorithm

Parse Input into Data Structures

Algorithm implementation and analysis

Sequential Optimal algorithm

Parallelisation

Valid Output Format

Build process and executables

Visualization

Front end

Visualisation concept design

Libraries evaluated and chosen

Visualisation integration

Test

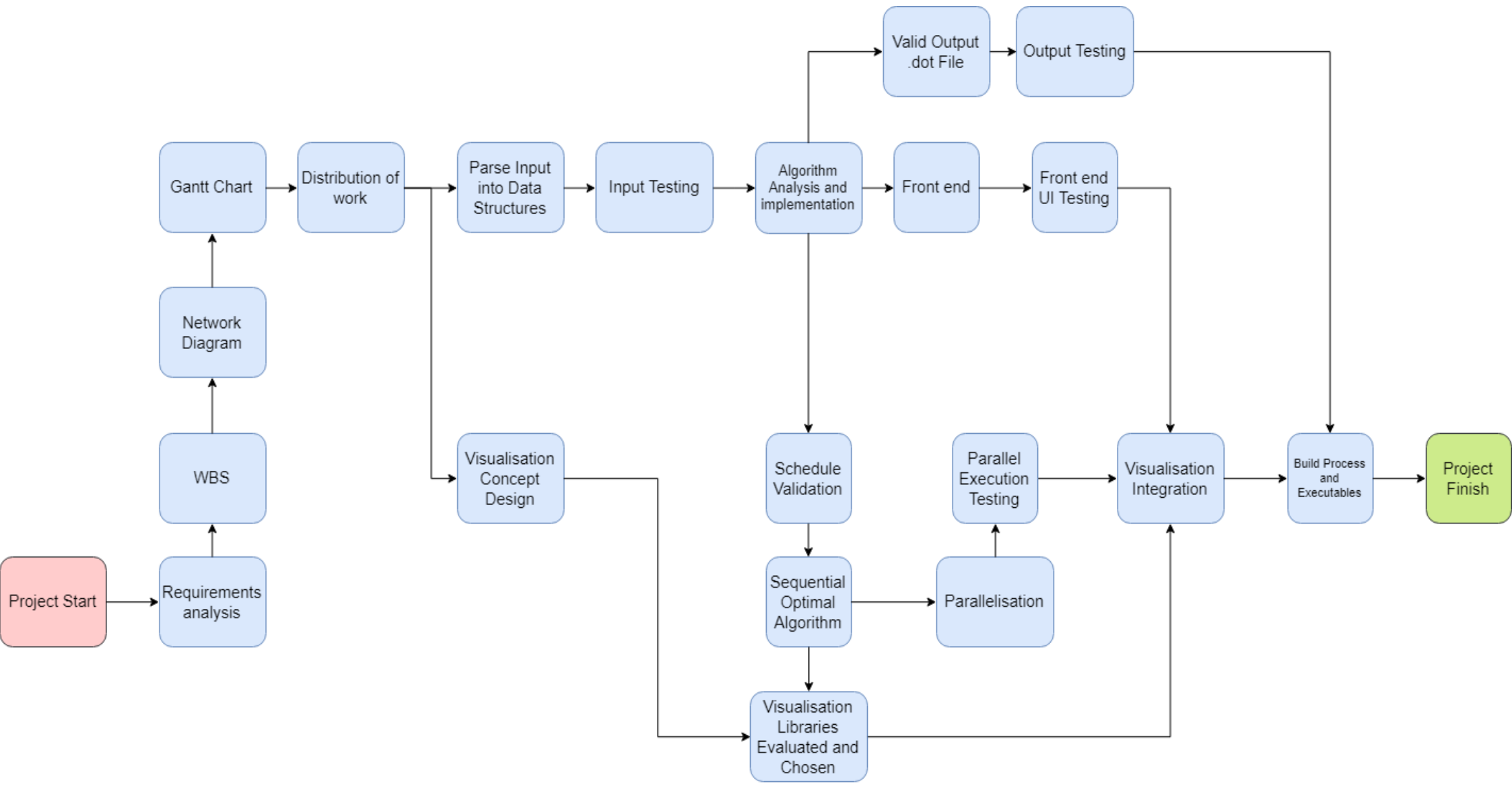
Input/output testing

Schedule validation

Front end UI testing

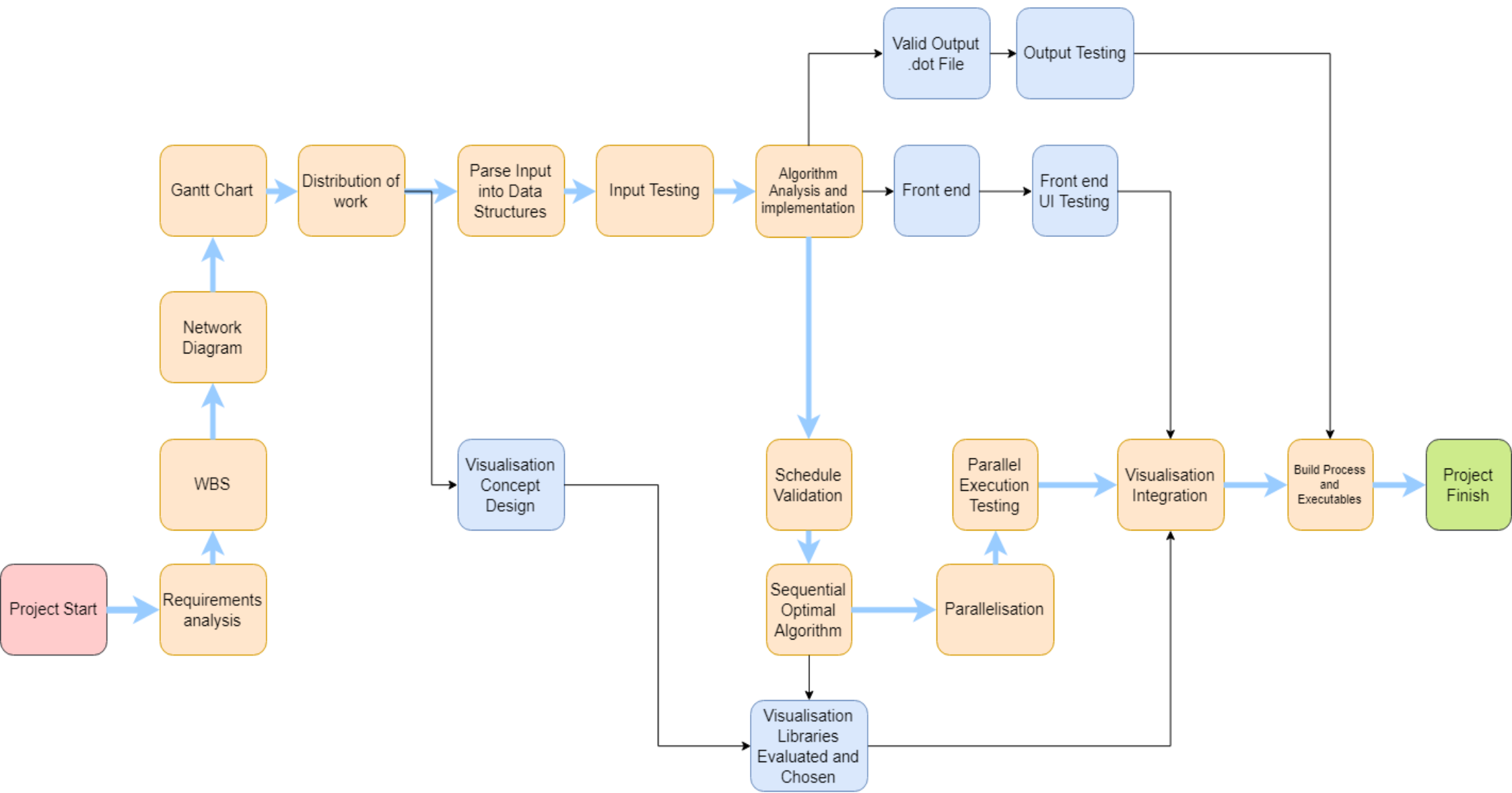
Parallel Execution Testing

Network Diagram



Network Diagram

With Critical Path (Orange Nodes)



Gantt Chart

