# Project Plan

## Team 4  Optimize Prime

## Members:

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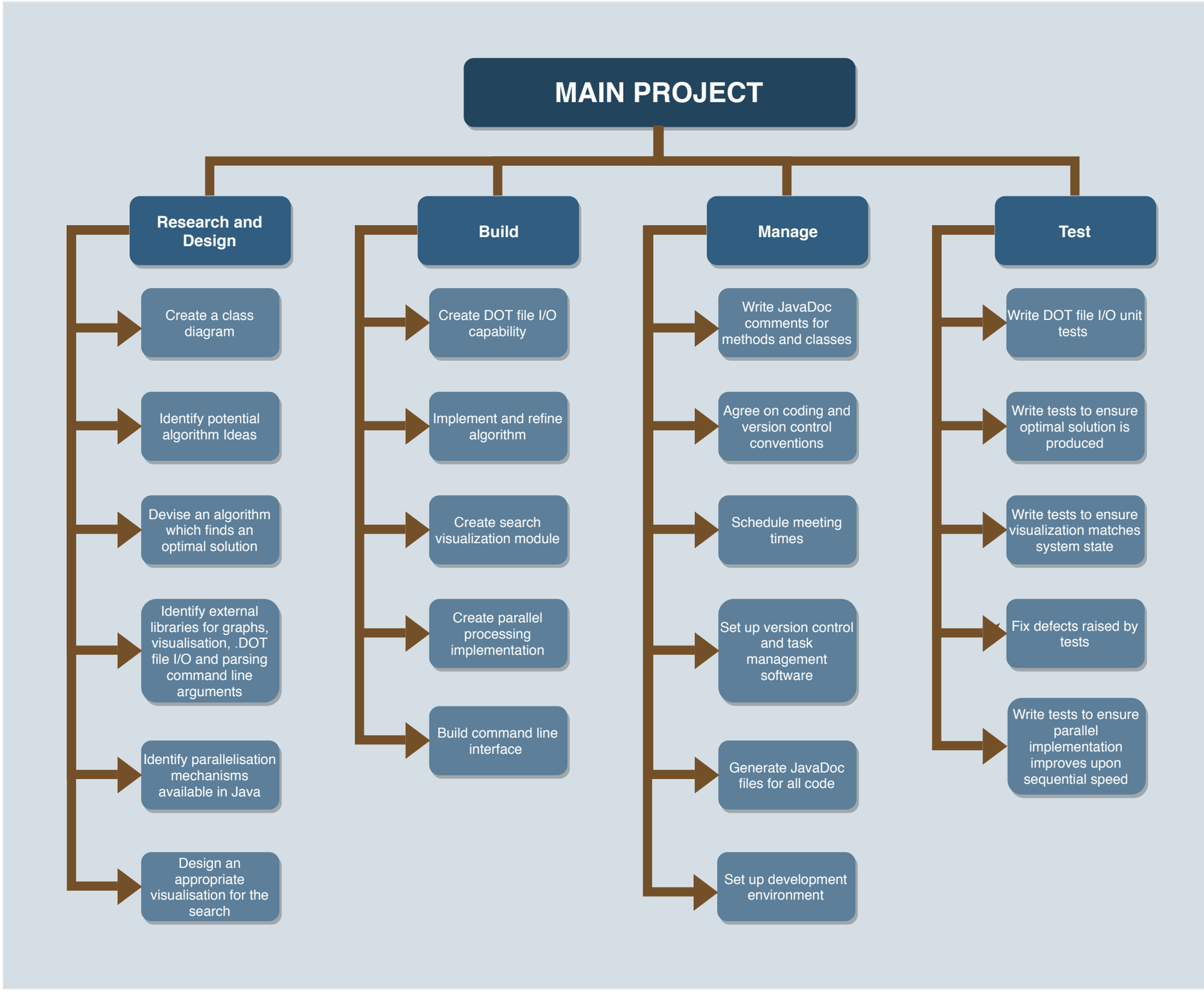
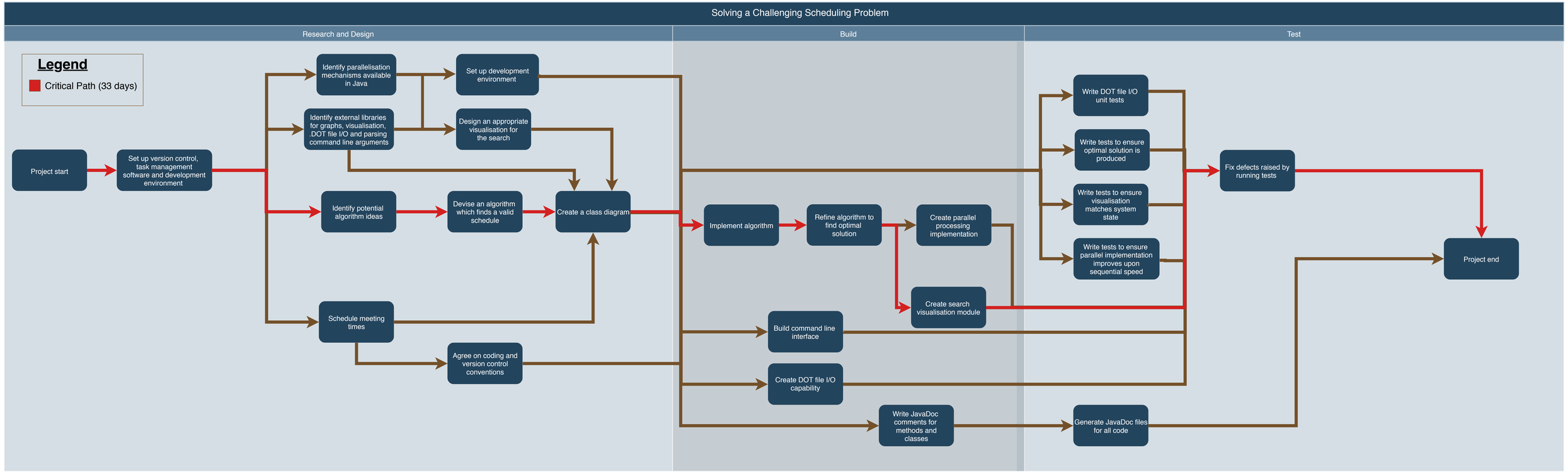
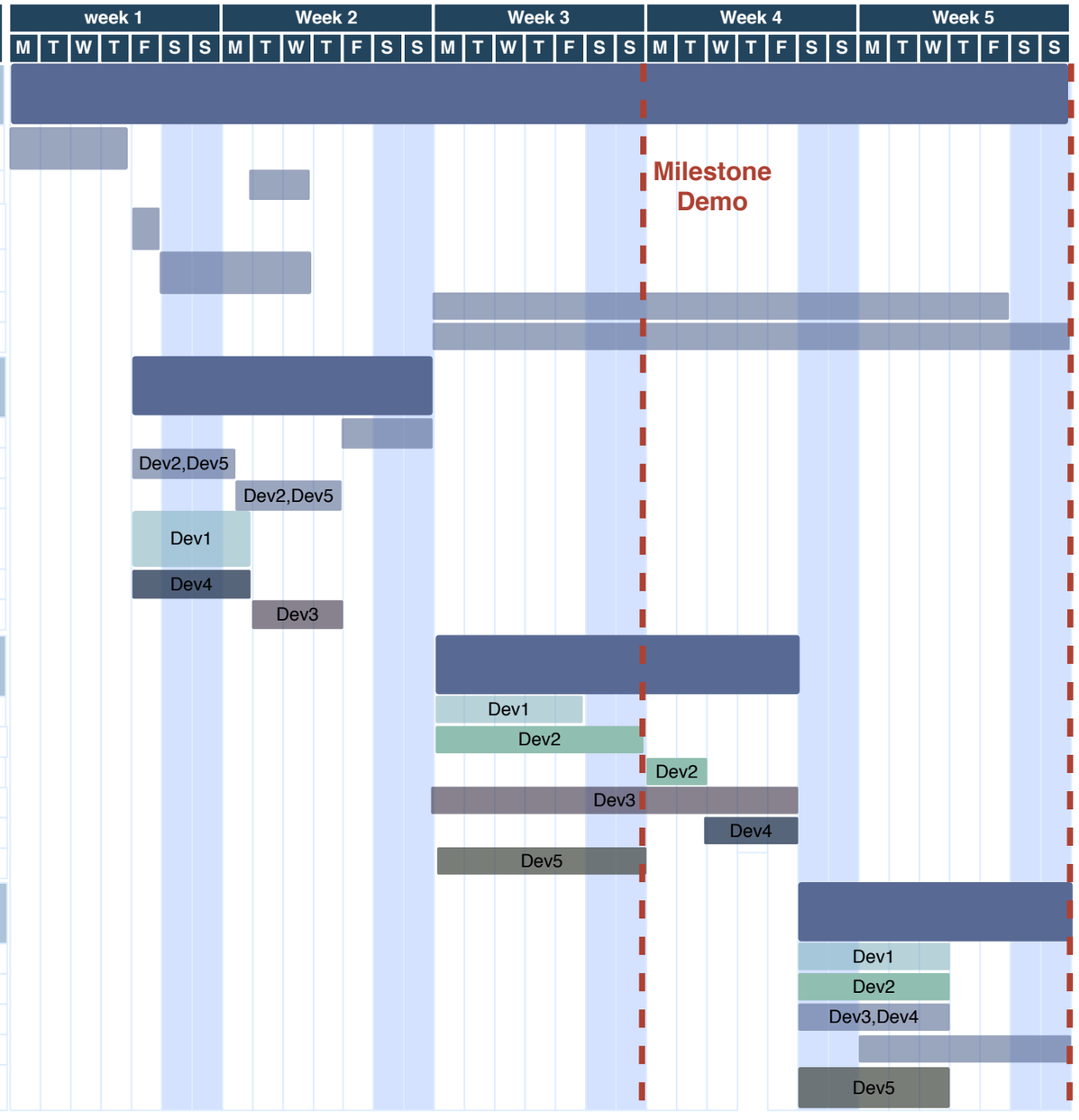
# 1. Work Breakdown



# 2. Network Graph




Text

# 3. Gantt Chart

| | Task Name |
|---|---|
| **Task 1** | **Manage** |
| Task 1.1 | Set up version control, task management, software |
| Task 1.2 | Set up development environment |
| Task 1.3 | Schedule meeting times |
| Task 1.4 | Agree on coding and version control conventions |
| Task 1.5 | Write JavaDoc comments for methods and classes |
| Task 1.6 | Generate JavaDoc files for all code |
| **Task 2** | **Research and Design** |
| Task 2.1 | Create a class diagram |
| Task 2.2 | Identify potential algorithm Ideas |
| Task 2.3 | Devise an algorithm which finds an optimal solution |
| Task 2.4 | Identify external libraries for graphs, visualisation, .DOT file I/O and parsing command line arguments |
| Task 2.5 | Identify parallelisation mechanisms available in Java |
| Task 2.7 | Design an appropriate visualisation for the search |
| **Task 3** | **Build** |
| Task 3.1 | Create DOT file I/O capability |
| Task 3.2 | Implement algorithm |
| Task 3.3 | Refine algorithm |
| Task 3.4 | Create search visualization module |
| Task 3.5 | Create parallel processing implementation |
| Task 3.6 | Build command line interface |
| **Task 4** | **Test** |
| Task 4.1 | Write DOT file I/O unit tests |
| Task 4.2 | Write tests to ensure optimal solution is produced |
| Task 4.3 | Write tests to ensure visualization matches system state |
| Task 4.4 | Fix defects raised by tests |
| Task 4.5 | Write tests to ensure parallel implementation improves upon sequential speed |