



Clue-less Project Plan

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Purpose

The purpose of this project plan is to document planning assumptions and decisions among project stakeholders.

- *Project objective*: to deliver the target version of the Clue-Less game
- Since the Clue-Less Project is schedule-driven, the team will use the **Design-to-Schedule Release Model**. The design will be broken into 5 milestones/stages – M1: Initial Planning, M2: Skeletal, M3: Minimal, M4: Target, M5: Final demo and hand off.
- Specifications: https://blackboard.jhu.edu/bbcswebdav/pid-7600417-dt-content-rid-86967286_2/courses/EN.605.601.86.SP20/CourseInfo/Clue-Less.pdf

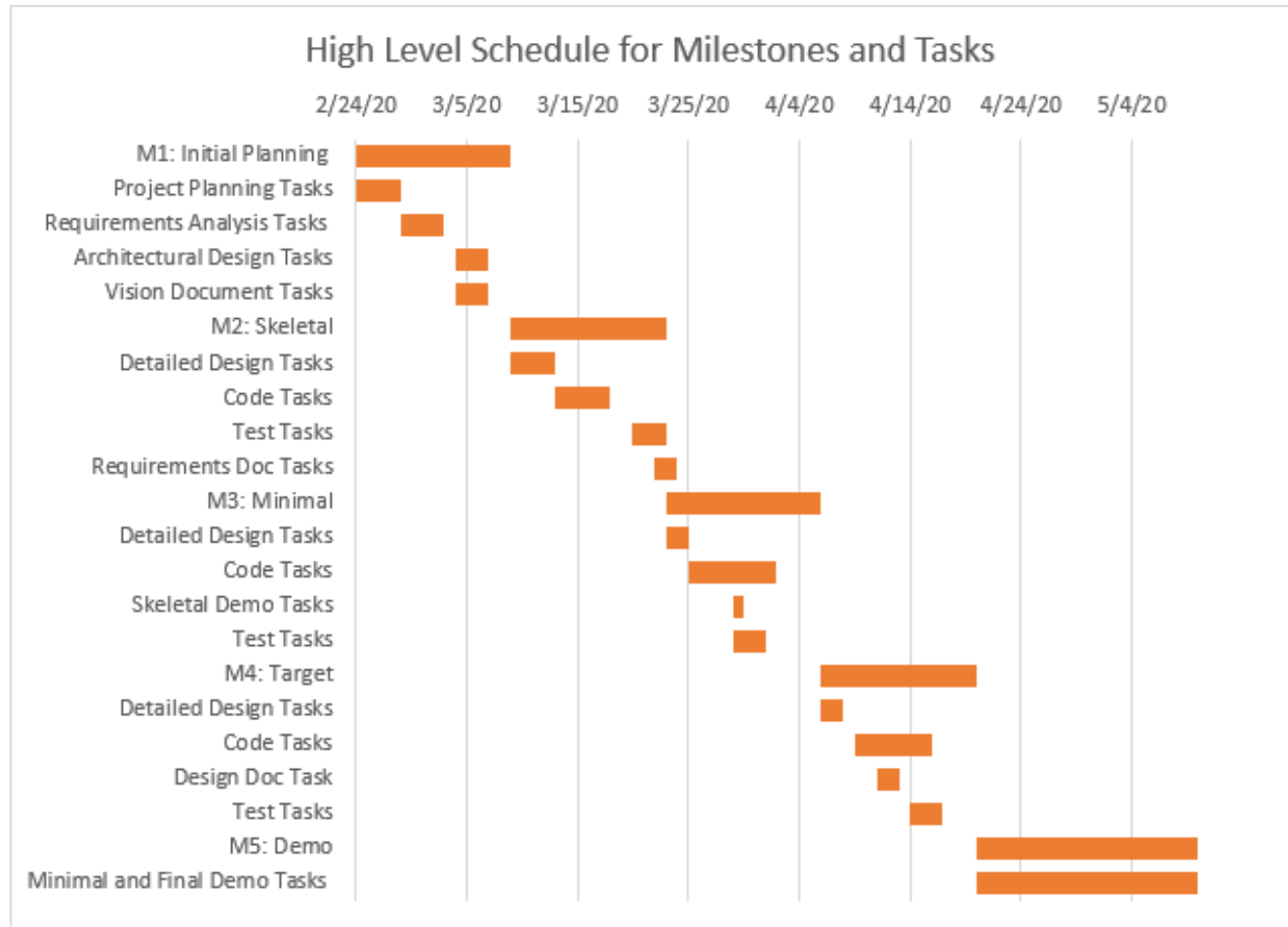
Schedule

- We will have following milestones and essential dates
 - Milestone M1, **PLANNING**: 2/24 – 3/09
 - Initial planning, requirements analysis, architectural design
 - *Project Plan due (2/25)*
 - Milestone M2, **SKELETAL**: 3/09 – 3/23
 - Detailed design, code and test acceptance level, high priority tasks
 - *Vision document due (3/10)*
 - *Requirements document due (3/24)*
 - Milestone M3, **MINIMAL**: 3/23 – 4/06
 - Detailed design, code and test acceptance and system level, medium priority tasks
 - *Requirements document due (3/24)*
 - *Skeletal increment demo due (3/31)*
 - Milestone M4, **TARGET**: 4/06 – 4/20
 - Detailed design, code and test for complete integration
 - *Design document due (4/14)*
 - Milestone M5, **DEMO**: 4/20 – 5/04

Team Clue-Dunit

Clue-Less Project Plan

- Complete full test pass and preparation for delivery
- *Minimal increment demo due (4/21)*
- *Delivery demo due (5/12)*



Milestones	Start Date	Days to complete
<i>M1: Initial Planning</i>	<i>2/24/20</i>	<i>14</i>
Project Planning Tasks	2/24/20	4
Requirements Analysis Tasks	2/28/20	4
Architectural Design Tasks	3/4/20	3
Vision Document Tasks	3/4/20	3

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M2: Skeletal	3/9/20	14
Detailed Design Tasks	3/9/20	4
Code Tasks	3/13/20	5
Test Tasks	3/20/20	3
Requirements Doc Tasks	3/22/20	2
M3: Minimal	3/23/20	14
Detailed Design Tasks	3/23/20	2
Code Tasks	3/25/20	8
Skeletal Demo Tasks	3/29/20	1
Test Tasks	3/29/20	3
M4: Target	4/6/20	14
Detailed Design Tasks	4/6/20	2
Code Tasks	4/9/20	7
Design Doc Task	4/11/20	2
Test Tasks	4/14/20	3
M5: Demo	4/20/20	20
Minimal and Final Demo Tasks	4/20/20	20

Deliverables List

In design-to-schedule delivery, it is critical to prioritize features and tasks and plan stages so that the early stages contain the highest-priority features, leaving the low priority features/deliverables for later, therefore our deliverables are ranked.

Skeletal System – architecture's proof of concept

Team Clue-Dunit

Clue-Less Project Plan

- Priority: 1
- Scope: client and server connection established with stub functions for critical functionality
- **Due 3/31**

Minimal System – implement critical program functionality

- Priority: 2
- Scope: all functions from skeletal form are fully integrated and working between client/server with text UI
- **Due 4/21**

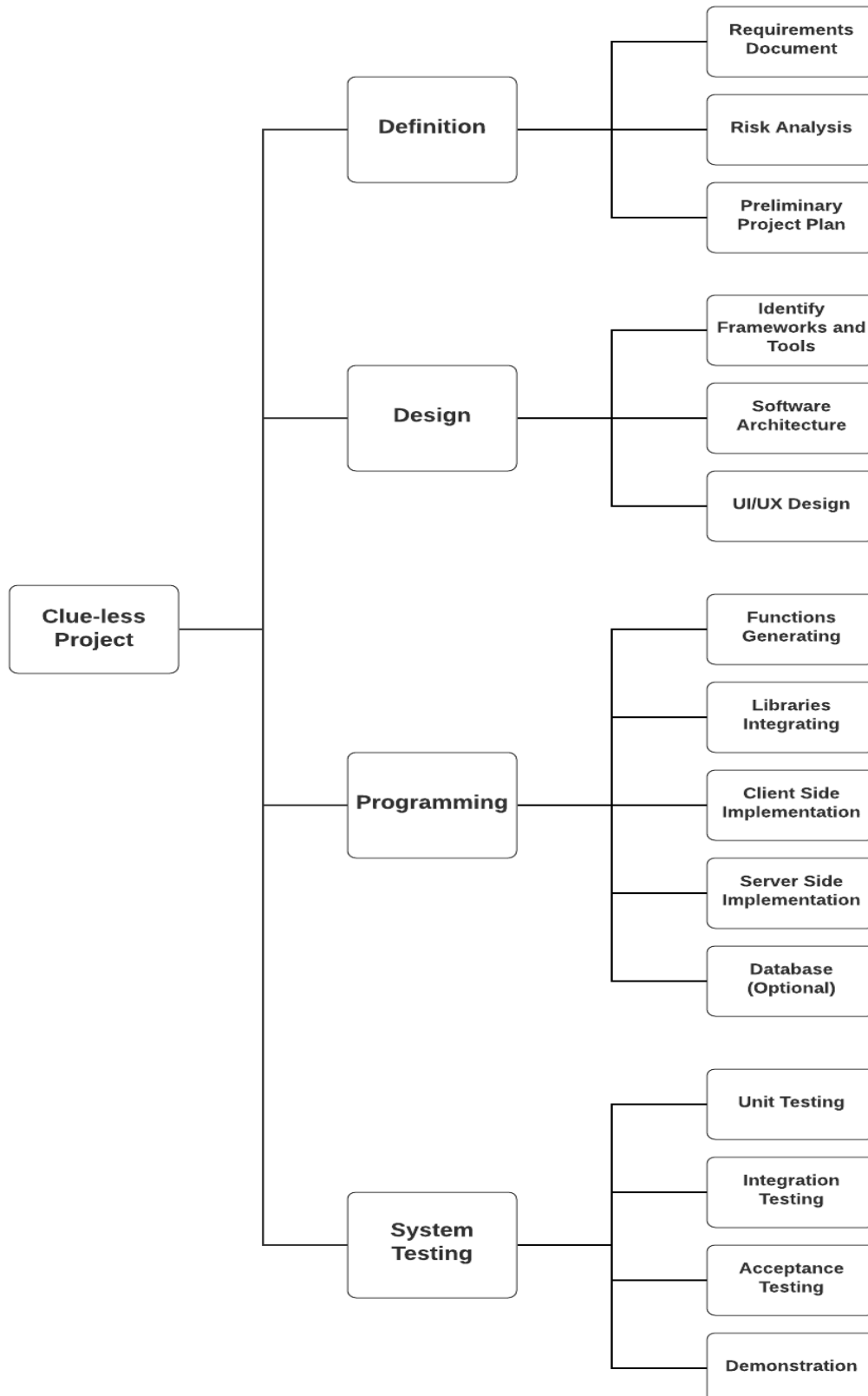
Target System – final version of the program

- Priority: 3
- Scope:
 - All functions from minimal form are working with GUI
 - Project Demo sub-tasks
- **Due 5/12**

Project Documents

- Team Charter, Priority: 0
- Project Plan, Priority: 0
- Vision Document, Priority: 1
- Software Requirement Specifications SRS, Priority: 1
- Software Design Document, Priority: 2

Work-breakdown structure (WBS)



Monitoring and Control Procedure

- Project tracking and control: GitLab
 - <https://gitlab.com/team-one-foundations-se>
- Project communications: Team Charter Document
 - Sync up at the beginning/end of each Milestone

Risk Assessment and Contingencies

- Distance learning and collaboration risk due to team members residing on different locales and different time zones
 - **Mitigation Plan:** Have weekly sync-ups and follow a communication protocol as defined in Charter Document. Notify team members in advance in case of absence (sick/emergency, etc.)
- Technical risks due to the learning curve of the tools (GitLab, C++, QT)
 - **Mitigation Plan:** Allow 2 extra days for learning curve. Document well and clearly comment all functions and classes. Identify technical experts in given domains who can help to unblock progress flow.
 - GitLab - Troy
 - C++/QT – George
 - UX – Linh
 - VS – Rasa, Kerim
- Schedule risks
 - **Mitigation Plan:** Carefully plan and prioritize tasks and ensure the scope for target implementation is reasonable.
- Not receiving enough feedback early risk
 - **Mitigation Plan:** Start testing early and have complete test sign off at the end of each milestones.

Quality Plan

- Software Quality Assurance
 - Coders will use Microsoft Visual Studio Code (VSC)
 - Coding style will be maintained with a formatting tool
 - VSC uses “EditorConfig” files to maintain this format
- Testing
 - Testing will be done locally and through Continuous Integration (CI) as code is uploaded to GitLab

- Test cases will be identified as we develop the code in each milestone
 - Suite of build verification tests (BVT) aka Build Acceptance Test (BAT) cases (priority 0)
 - Suite acceptance level cases (priority 1)
 - Suite minimal/integration level cases (priority 2)
 - Suite target/integration level cases (priority 3)
 - Dream/nice to have cases (priority 4)
- Areas to address in integration testing:
 - Performance
 - Network (if offline provide user with a warning message)
 - Error handling
 - UX testing
 - Install/uninstall
- Additional user testing will help to identify edge cases and find and remediate defects
- Configuration Management
 - GitLab (a Git-based tool) will be used for Configuration Management (CM)
 - Continuous Integration/Continuous Delivery (CI/CD)
 - Track tasks as GitLab Issues
 - Repository of the project code and some documentation

Assumptions and Constraints

- Multiplayer game only (max player number: 6 min payer number: 3)
- English Only
- Accessibility testing will not be done
- Testing on different configurations will not be done
- We will deliver alpha version of this app with min functionality (priority 1, 2 and 3 features ONLY)
- We will not do security and privacy work for alpha release
- Average fixed broadband download speed 64.17 Mbps
- Average upload speed 22.79Mbps
- Baseline OS – Win 10