

CS455A: Software Engineering

Ed Eater Estimate

Submitted By

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Requirements

Segment	High Priority	Medium Priority	Low Priority
Baseline	Get an HTML editor with simultaneous rendering		
UI/UX	Design and implementation		
File IO	<ul style="list-style-type: none">• Open• Close• Save	<ul style="list-style-type: none">• Exporting to other formats	<ul style="list-style-type: none">• Tabs
Editing	<ul style="list-style-type: none">• Underlining• Bold• Italics• Colors• Fonts• Size	<ul style="list-style-type: none">• Link• Case-Setting• Spacing• Alignment• Bullets/Numbering (non-nested)• Alignment• Blockquotes/Cod eblocks	<ul style="list-style-type: none">• Bullets/Numbering (nested)• Strikethrough• Tables• Columns• Highlight• Image Insert• Equations• Margins
Additional Features	<ul style="list-style-type: none">• Copy/Paste• Key Binding	<ul style="list-style-type: none">• Version History• Themes	<ul style="list-style-type: none">• Comments• Compare

Github Links

- Project Gantt board: <https://github.com/users/1-Harshit/projects/2/views/1>
- Repository: <https://github.com/1-Harshit/ed-eater>
- Issues: <https://github.com/1-Harshit/ed-eater/issues>

Estimated Time

- Boilerplate + Baseline App: 25 hrs
- Editing
 - High: 15 hrs
 - Medium: 25 hrs
 - Low: 25 hrs
- Shortcuts and additional features
 - High: 10 hrs
 - Mid-low: 30 hrs
- File IO + Exports
 - High: 15 hrs
 - Mid-low: 10 hrs
- UI/UX:
 - Design 20 hrs
 - Implementation 20 hrs
- Deployment
 - CI/CD Setup 5 hrs
- Alpha Testing 15 hrs

Timeline

Tasks	Week 1 (11-15)	Week 2 (18-22) <i>Midsem</i>	Week 3 (25-29)	Week 4 (2oct-6)	Week 5 (9-13)	Week 6 (16-20)
Baseline	X					
UI/UX	X	X			X	X
Editor Features			X	X		
File IO			X	X	X	
Shortcuts/ other features				X	X	
Deployment					X	X
Testing					X	X

Prioritized tasks

<ul style="list-style-type: none">• Requirements and estimate (Completed)• Tech Stack (Completed)
<ul style="list-style-type: none">• Design (UI/UX)
<ul style="list-style-type: none">• Baseline Application
<ul style="list-style-type: none">• Editor features (High Priority)• File IO (open/close)
<ul style="list-style-type: none">• Editor features (Medium Priority)• File IO (Medium Priority)• Shortcuts/keybindings
<ul style="list-style-type: none">• Editor features (Low Priority, if time permits)• File IO (Low Priority, If time permits)• Other features
<ul style="list-style-type: none">• Deployment• Final UI/UX
<ul style="list-style-type: none">• Alpha testing

Reasoning/Logic of Prioritization and Estimates

We began by extracting potential features of a text editor and classifying them into low-priority (luxury), mid-priority, and high-priority (essential) categories. Subsequently, we evaluated the feasibility of each feature from a developer's perspective, adjusting the priority matrix accordingly. The priority matrix was initially organized into sub-categories such as File IO and UI/UX. Following this, we constructed a dependency graph to determine task interdependencies. We identified tasks that could be executed in parallel and, taking into account both feasibility and task importance, formulated a Gantt chart for the project. Finally, we compiled a prioritized task list based on this assessment.