

| Task                          | Assign To | Estimated (Hr) | Actual (hr) | Description   |
|-------------------------------|-----------|----------------|-------------|---|
|                               |           |                |             | Add 1-2-1 rule and guaranteed safe guess on top of  |
| AI Hard                       | I/N       | 2              |             | 4 AI medium logic;  |
| AI Easy                       | A/P       | 1              |             | 1 Randomly uncover squares  |
|                               |           |                |             | randomly uncover until a safe cell is revealed (zero adjacent mines), then strategically uncover adjacent cells using revealed numbers  |
| AI Medium                     | EN, LD    | 4              |             | Interactive: user and AI take turns; Automatic: AI solves grid itself. Needs UI additions and logic for AI turns. Dependencies: Easy, Medium, Hard AI functions   |
| Interactive vs automatic mode | KR        | 2              |             |   |
| Extra feature                 | YH        | 1.5            |             | 3 Hint feature (using hard ai: max hint = 3)  |
|                               |           |                |             | prevent clicking on flags and mine count before first click. Fix nonsensical logic issues. Allow for placing more flags than mines  |
| Fixing bugs                   | KR        | 1              |             | - mine count input is wrong: min = 1 and max = 20% of grid cells<br>- section 1: random number of mines account for less than 20% of the grid squares (should be user determined and 10-20 mines)<br>- formatting is sheetee so I basically need to reformat the whole thing (- |
| Fixing Doc Errors             | YH        | 1              |             | As twisted as some of the logic is, it would be too large of a task to rework in so little time. Patches made to fix any glaring errors, banded more than extensive fixes.  |
| Edit Architecture (optional)  | Nor Doing | N/A            | N/A         | Documentation for AI solvers, extra feature;  |
| Update Documentation          | LD        | 1              |             | 6 Comments in code + prologues  |