

Assignment 2

For assessment 2, you will create a web-based [Gomoku](#) game with a front-end framework(preferable React.js, but you are also welcome to use any other frameworks).

If React.js is your choice of framework, you are recommended to use Create React App as a starting point for the assignment.

The application mockups are provided in the appendices as implementation guidelines per page. However, you don't have to follow the exact design or layout. Please feel free to implement your own UX/UI, you will not be marked against for the styling.

What do I need to work on this?

If you are working on turing, the development environment should be ready for you to start.

If you are working on your own computer, you will need the latest nodejs, npm or yarn and a web browser.

How am I being marked?

| Feature | Requirement | Points |
|----------------|--|--------|
| Basic set-up | The Create react app project is set up with a readable file and folder structure. There is no error shown when starting the project. | 1 |
| Git and Commit | Set up git (including a .gitignore file to exclude unnecessary files, create-react-app will have .gitignore out of the box). There should be at least 5 commit histories with meaningful messages. | 2 |
| Routing | Correct routing set up with proper authentication control. Pages include but are not limited to the home page(Appendix 1), login page(Appendix 2), game page(Appendix 3), game history page(Appendix 4), and game history detail page(Appendix 5). | 2 |

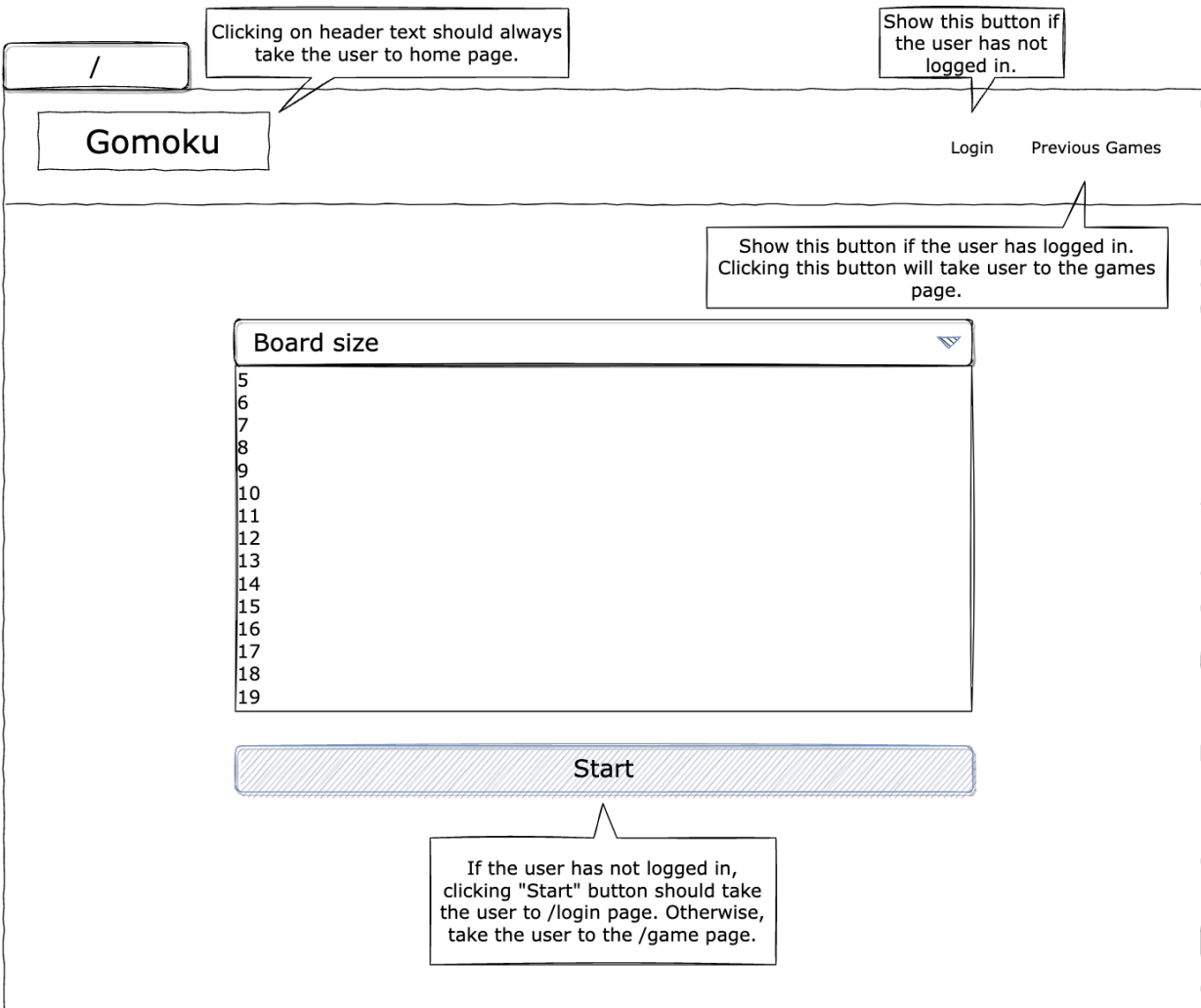
| | | |
|-----------------------------|--|---|
| Home page features | As shown in Appendix 1, must-have features are <ol style="list-style-type: none"> 1. A navigation bar, including routings to each page/feature (differentiation between auth vs unauthenticated status) 2. Ability to modify board size. 3. Ability to start the game. | 3 |
| Login page features | As shown in Appendix 2, must-have features are <ol style="list-style-type: none"> 1. Ability to login with a hardcoded user (username: admin, password: admin, the implementation can be the same as in the demo project une-cinema-react). 2. Redirect the user to the home page on successful authentication. 3. Error handling and error status for mismatched username and password. | 3 |
| Main game page features | As shown in Appendix 3, must-have features are <ol style="list-style-type: none"> 1. All features you have implemented in assignment 1, including <ol style="list-style-type: none"> a. alternating turns b. resetting/restarting the game c. determining a draw or winner 2. A button to leave the game <ol style="list-style-type: none"> a. If the game is finished, save the game details including size, date, result, and players' moves in order (keep in mind that the black player always moves first) into browser localStorage. Then go to the previous games page. b. If the game is not finished, no game details will be saved, just go to the home page. | 3 |
| Games history page features | As shown in Appendix 4, must-have features are <ol style="list-style-type: none"> 1. Ability to display a list of previous games. 2. Ability to navigate to one of the previous games. | 3 |
| Game log page features | As shown in Appendix 5, must-have features are <ol style="list-style-type: none"> 1. Ability to restore previous game configuration (the board size). 2. Ability to display a read-only game replay (specifically, you will need to display the placement order number of each stone). 3. Ability to navigate back to the games history page. | 3 |
| Bonus | Any extra feature you are proud of. Please state that in the README file and why you should be awarded for the bonus point. Please note your total mark will not exceed 25. | 2 |

How do I submit it?

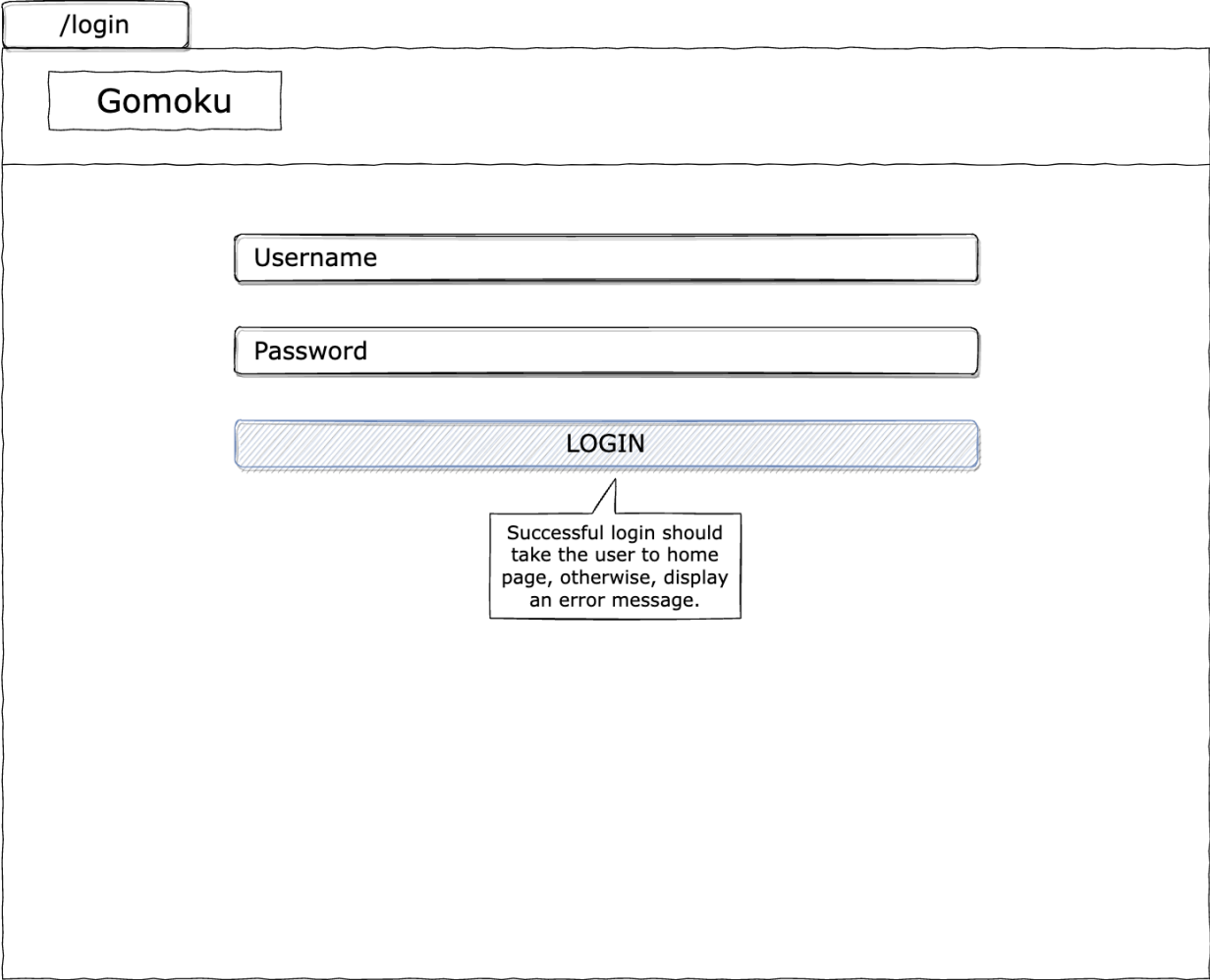
Please make sure to use git and commit your work, then run “git bundle create assessment2.bundle --all”, which will produce a bundle file. Submit the bundle file via Moodle.

Please make sure you **do not** include files and folders which are listed in the .gitignore.

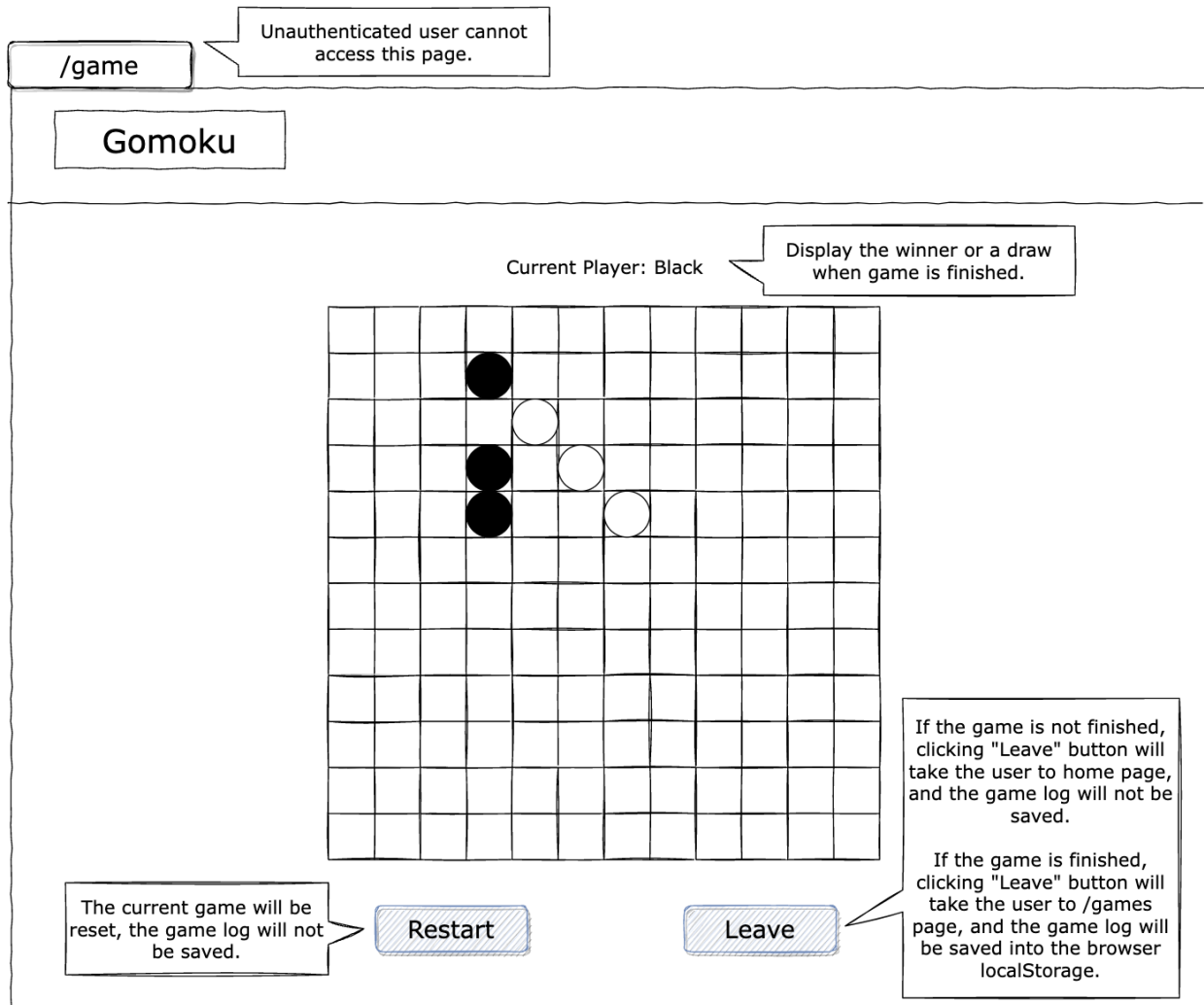
Appendix 1 - Home page



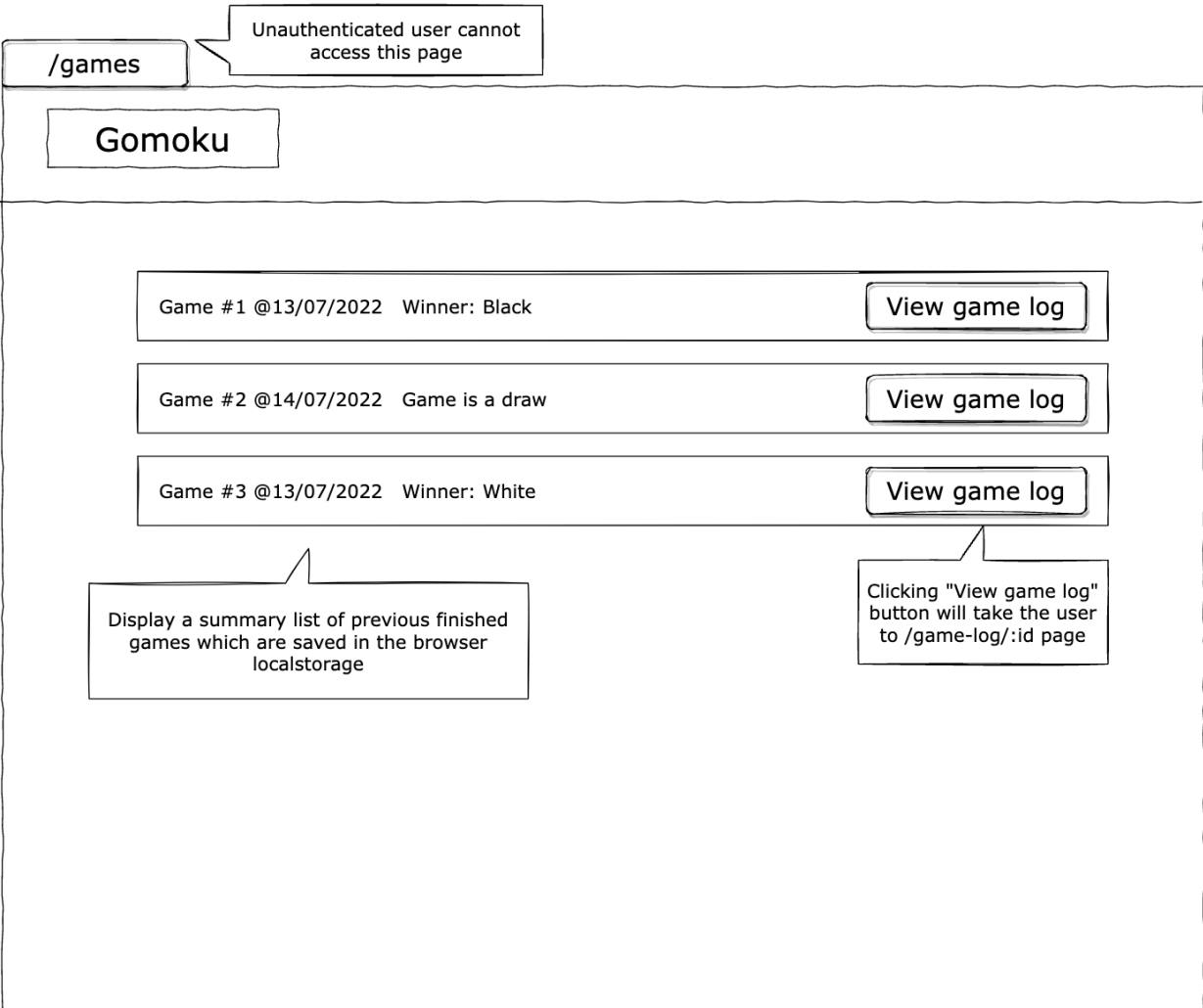
Appendix 2 - Login page



Appendix 3 - Main game page



Appendix 4 - Games history page



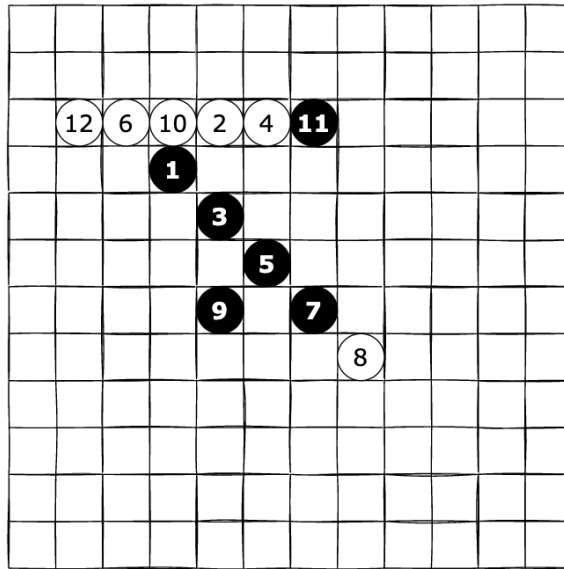
Appendix 5 - Game log page

/game-log/:id

Unauthenticated user cannot access this page

Gomoku

Winner: White



The board is "read only", no stone can be placed on it.

Back

Clicking "Back" button will take user to /games page.