tabnex™ DEV

Practical Assessment

We would like you to complete an assessment to be considered to be hired here at Tabnex. The assessment is divided into 3 stages: Completing stage 1 is essential to the hiring process. Stage 2 is highly recommended to show your skillsets in manipulating the front-end. If you still have some time after completing stage 1 and 2, use stage 3 to show off your skillsets in React.

For this assessment we would like you to develop a single page react app. The app will simply contain 3 X 3 grid (Similar to tic-tac-toe). The app should have the following requirements:

Stage 1: Turtle

1. Similar to the tic tac toe game, the players alternate from (X) and (O). However, for this assessment it will be created for a single user. For example, when a user clicks for the first time, an (X) is placed in the box. If the user clicks again, then an (O) is placed in a different box. This process then repeats itself again for every other click alternating between the (X) and (O)

2. A login page that includes a username and a password.

> A bonus if you are able to log in using Facebook or Google login. A good way to implement authentication is using passport.
>
> http://www.passportjs.org/docs/

Stage 2: Sea Turtle

1. Highlight the box or grid selection was last selected by making it bold or adding a colour, you are free to choose whatever front-end changes you would like.

2. Provide the user with an option to change the grid size. (4x4, 5x5, 6x6)

3. Provide the user with an option to reset the grid. In other words, resetting the game/grid and emptying all fields.

Stage 3: Leatherback

1. If the page is reloaded/refreshed while the user still using the app, the app should continue where it stopped with all the symbols in place. This should also apply in cases where internet connection is lost.

2. Once the grid is full, Ask or prompt the user to start a new one.

3. Anything extra or creative (in terms of design, functionality, or anything else) is a bonus.

Stage 4: Archelon

1. At the link provided below, there is a sample server used to play tic tac toe. Use the progress you have made with your app to fully implement a game of tic-tac-toe with AJAX functionality to the server.

> Download server files here: https://we.tl/n6ppxbgKol
>
> Feel free to modify the file if it helps you complete your tasks. P.S. This stage is optional, but this is by far the most important bonus available.

> Please do not title your repo "Tabnex". Give it any creative name and upload your app on Github