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## Tech Slot

### Chess Quality Assurance Session

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**We would like to invite you to demonstrate your skills in quality assurance by creating a test suite and writing some e2e and unit tests for a small chess application**

You will be provided with an application which:

- Allows two people to play a chess game on a chess board.
- White and black should be allowed to make moves in turns, none of them can make 2 or more consecutive moves
- The moves should be transferred to the back-end and saved in the database
- Only **valid** moves should be stored in the database.

Valid are all moves with own piece that satisfy the below

Piece is allowed to move:

- ✓ on the board
- ✓ to a free square
- ✓ to a square where opponent's piece is placed

Piece is **not** allowed to move

- ✗ to a square where own piece is placed
- ✗ to a square where a king is placed

The application is written in

- Vue.js with typescript and 'vue-property-decorator' for the front-end part
- Node.js, typescript + express for the server side
- MongoDB + mongoose for storing the data

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## The Task

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1. **Create a test suite describing the test cases that should be created to ensure the quality of the application**
2. **Write any unit tests that you think are necessary using any preferred by you testing framework among mocha, jest or jasmine**
3. **Write any end-to-end tests that you think are necessary using selenium web driver + a preferred language of yours**

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**Good luck!**

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