

Quality Requirements for Bilmart:

Any user familiar with Amazon, trendyol, or any other online shopping platform should be able to use Bilmart without documentation. [Usability]

Any button or interactable element should do what is written on it [Reliability]

All listings and user profiles must have an image [Usability]

All actions must take at most three mouse clicks [Usability]

Any update to the site should be complete in 500 ms [Performance]

The site must display all listing information correctly [Reliability]

If an error occurs from the user's input the site must explicitly explain where the error occurred and highlight the area [Error handling]

The site must look appropriately sized and avoid any overflow on mobile devices [Hardware]

A user must only have access to their own data and public data of others [Security]

A person's active listings list should not exceed 10 [Resource management]

The site must be able to support at least 100 users at any given time [Performance]

Constraints

The implementation of the backend must be done in Node.js and Express.js.

TechStack:

We plan on using MongoDB for storing and accessing our database as it stores unstructured data faster than MySQL. For programming language we chose JavaScript and its frameworks express.js and node.js for the backend. Express.js framework helps to reduce programming time while building the backend apps. Node.js is exceptional for data-intensive real-time applications. For the front end we plan on using react.js as its potential to reuse components can be of great value.