IMPLEMENTATION

- Angular 8 front end based on Angular Material components for an enhanced user experience and professional look and feel for the application
- Responsive layout that looks great on mobile
- Tested on the latest version of Chrome
- Node.js, the choice of server-side run-time, results in consistency as JavaScript is used for both the client and server side language
- User authentication for enabling adding/removing favourite movies
- JWT based authentication, user remains logged in for 1 hour
- No page reloads and user redirection upon accessing wrong URLs
- Inject Angular services into components used for making HTTP requests
- Display snackbar messages on the front end upon errors returned by the server
- Use express for Node.js to keep the code lean
- Stateless Node.js API, enabling future re-use for similar desktop/mobile applications to be developed
- Code re-use for the authentication component in Angular
- Enabled viewing movie trailers if one found inside the app.
- Hash passwords using bcrypt-js before storing in database for new user registration on the app.

TO DO

- Escape user input in Node.js script to prevent SQL injection, possible solution – Prepared statements
- Better error handling on both front-end and back-end, currently validation only present on the front-end
- Add richer information about the movies create a profile page for users to edit their information
- Use formal testing suites
- Add authentication guards in Angular to prevent access on unwanted pages
- Add authentication middleware in Node.js to validate token
- Separate server-side logic to controllers for maintainable code
- Restrict cross origin requests

Go to page 2 for demo screenshots.

DEMO

Home page listing all movies in the database:-

Authentication popup upon clicking the heart (favourite) button:-
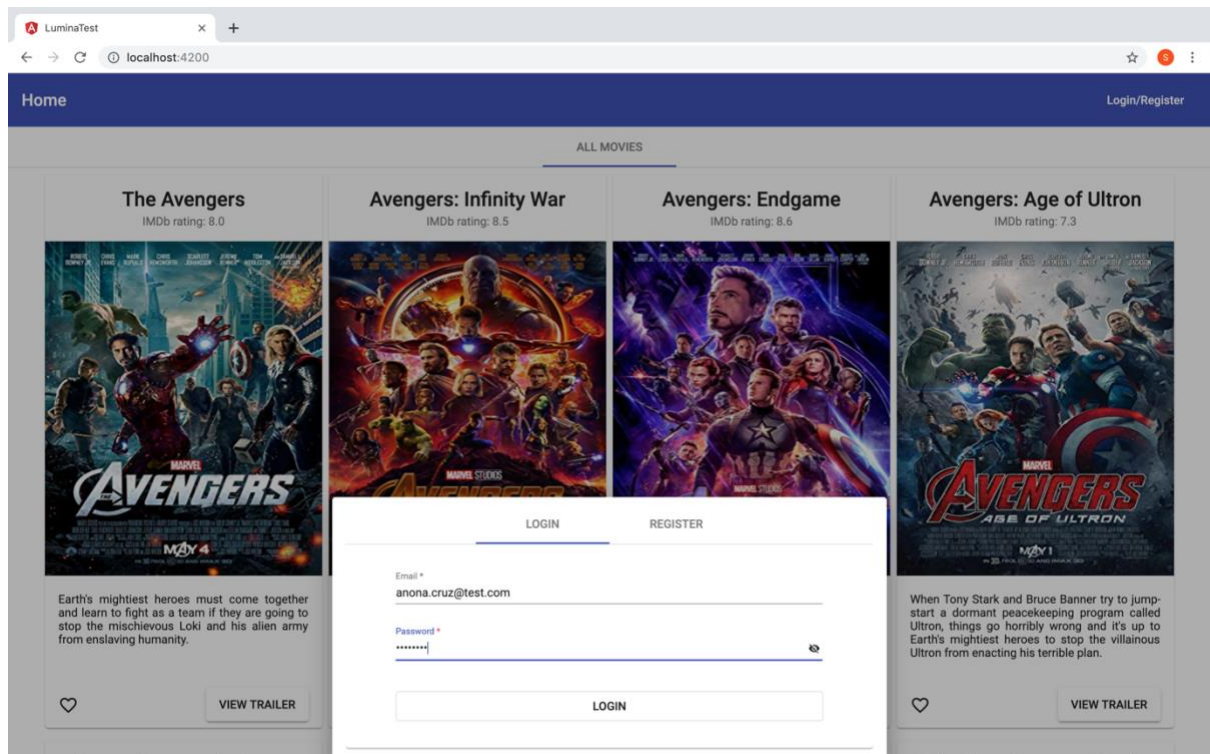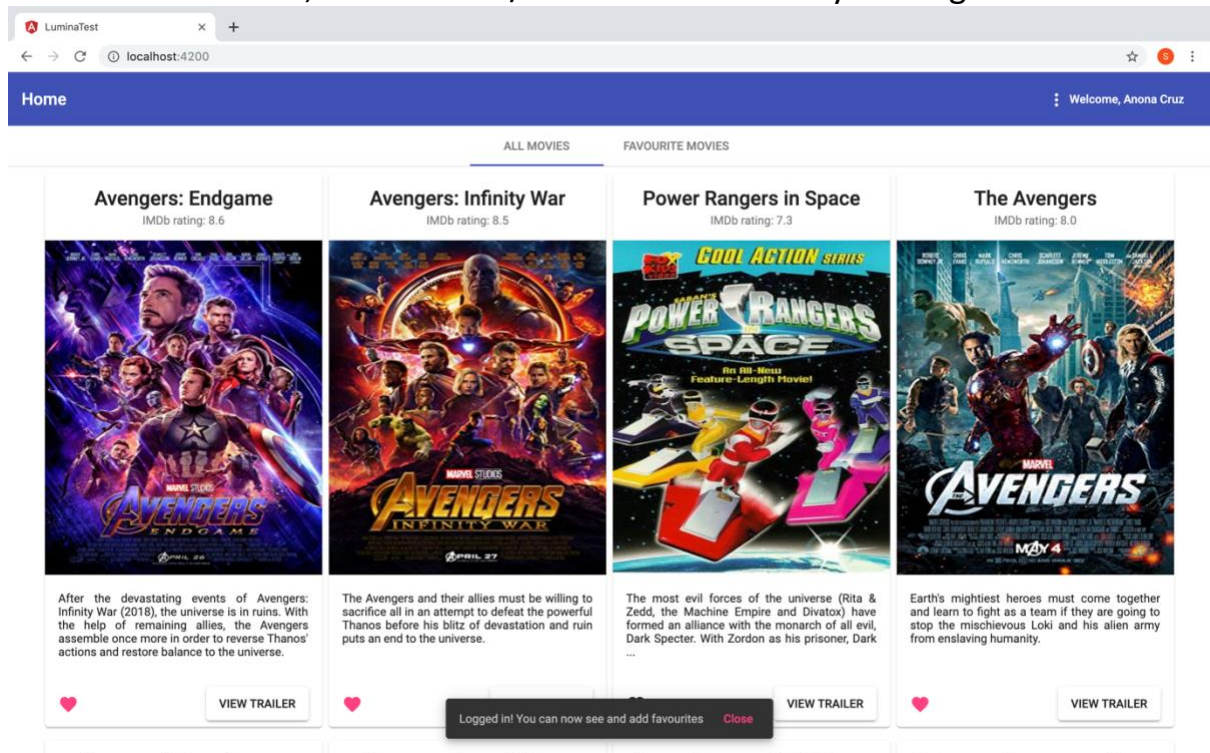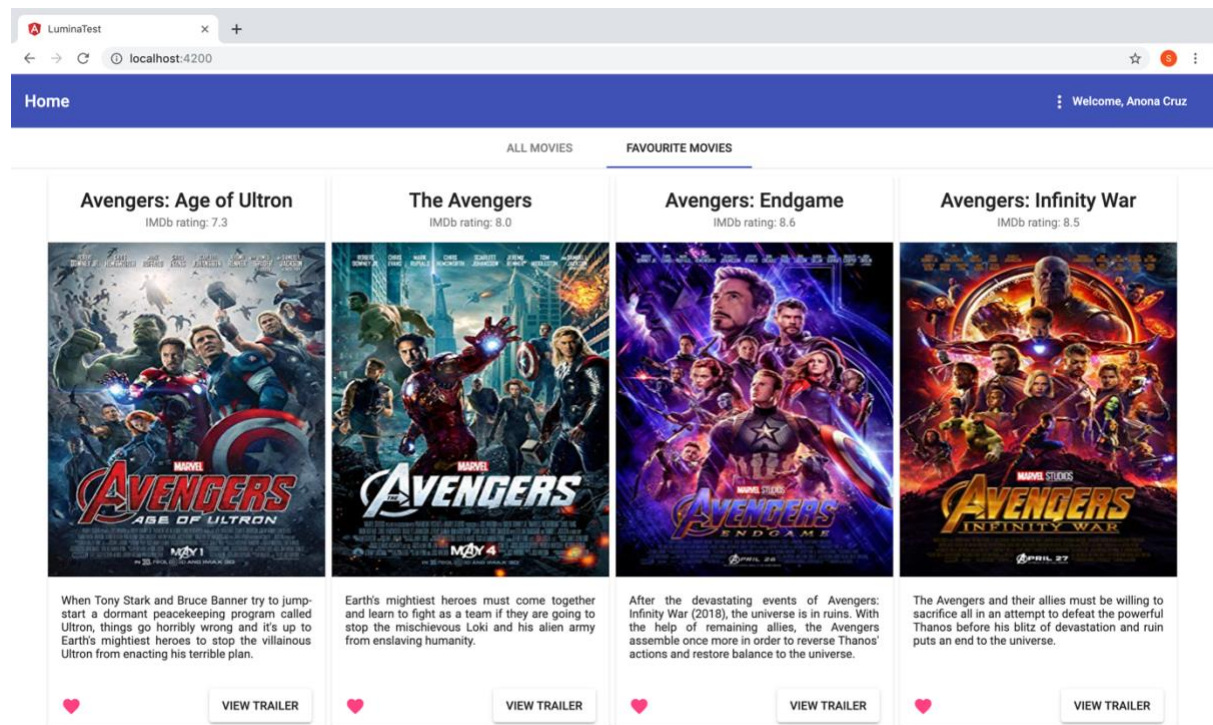
User authentication by filling in credentials for initial user email:
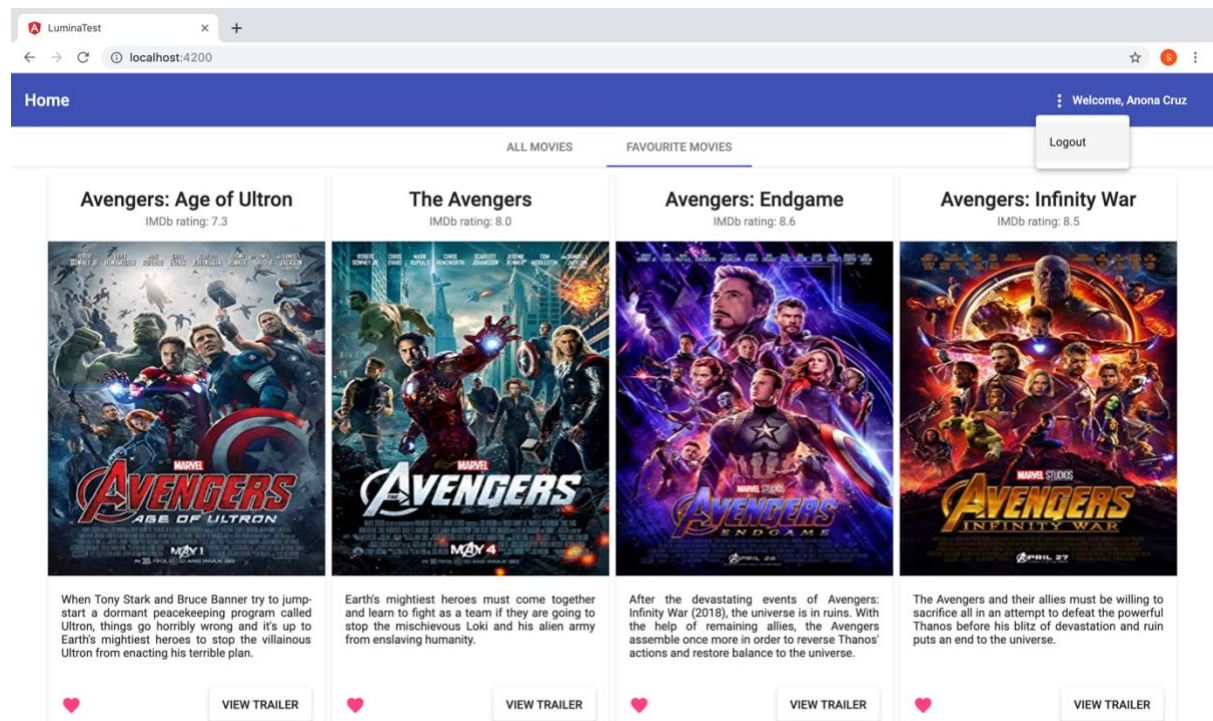anona.cruz@test.com and password: password

Authenticated user views the snackbar and can see favourite movies with a coloured heart icon, can also add/remove favourites by clicking on it:-
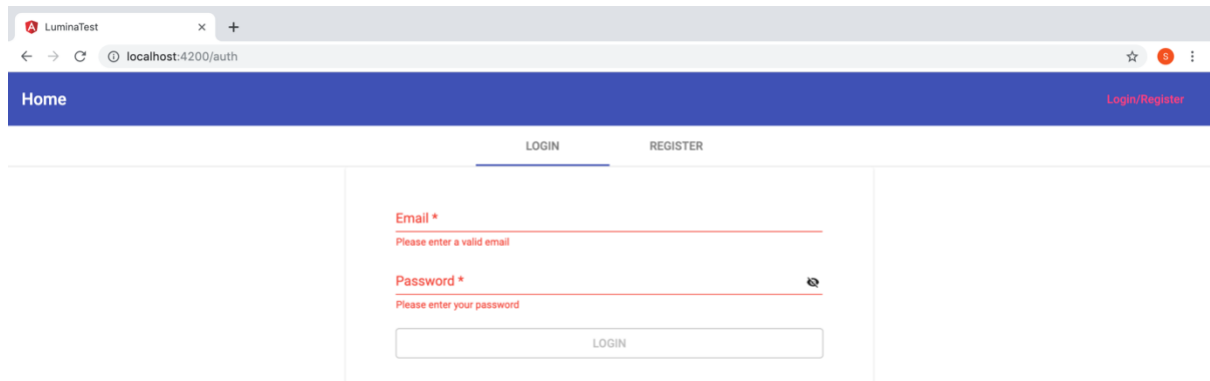
User switching to the Favourite Movies tab to view only the favourite movies:-

User logout displayed on clicking the welcome message on nav bar:-
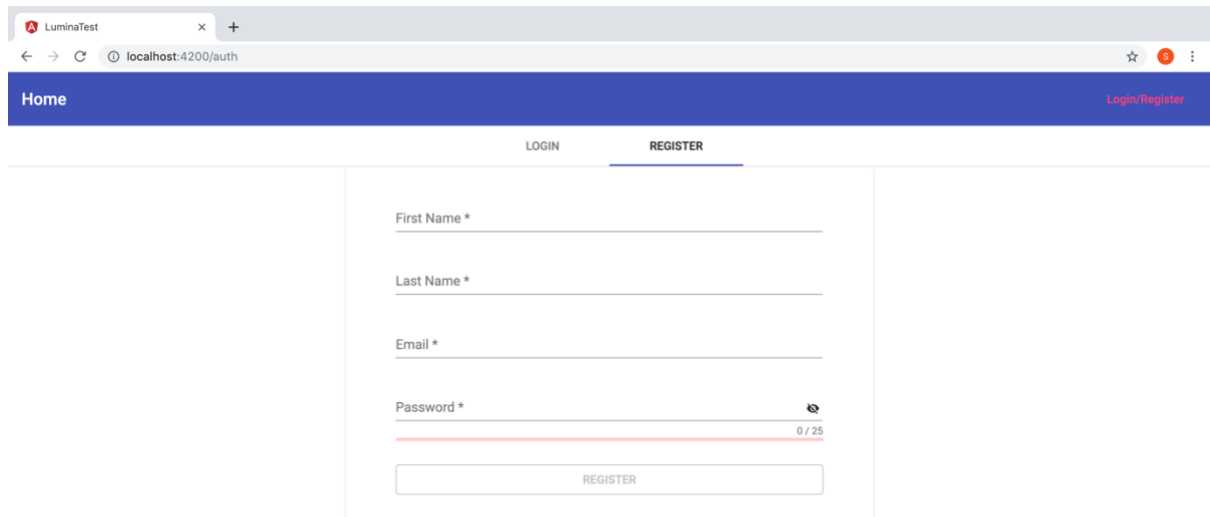
User authentication page can also be accessed directly from the link on Navigation bar when logged out:-

User registration screen for creating a new account:-

Real time validation for user input and error alerts (see password):-

Upon clicking the View Trailer button, open a dialog with the trailer and video controls:-
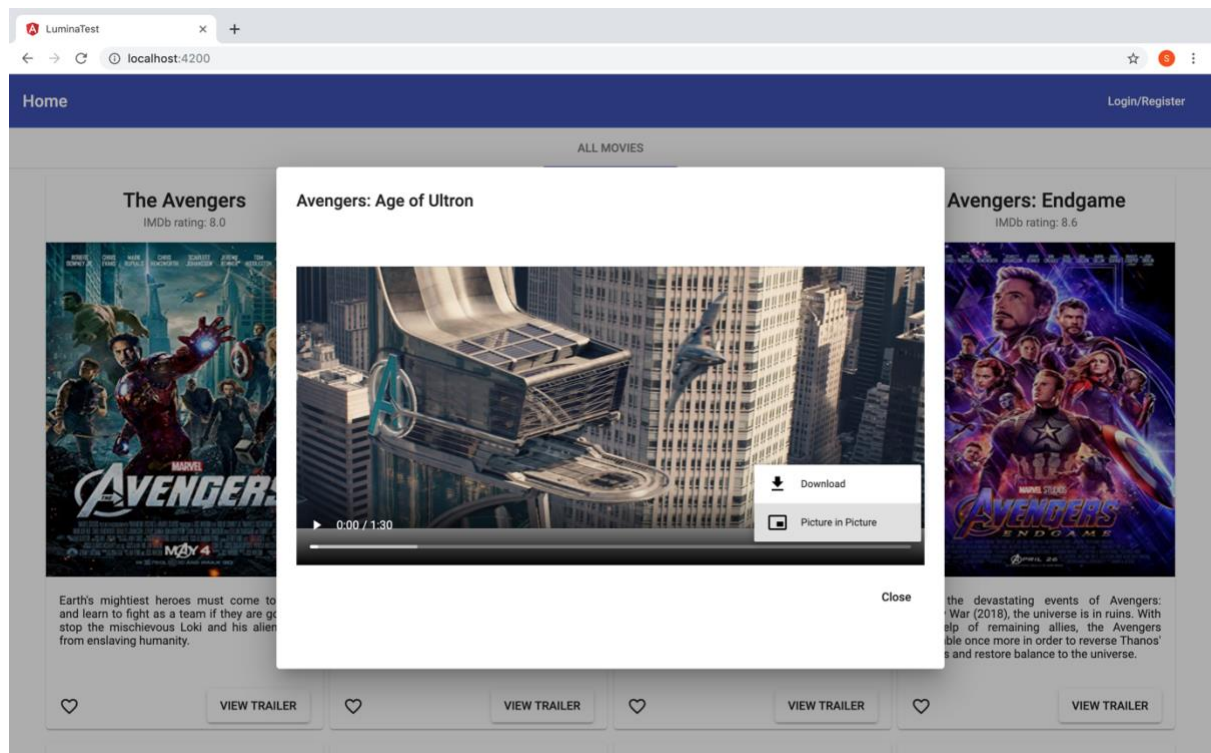
Passwords for new users are hashed in the database:-

Movies layout on mobile devices:-