**Exercises**

*Lecture 10,11:*

Express

Define all APIs and build a system based on RESTful APIs with some of the core features:

- **Register**:

User registers a new account with email, password, password-confirm … Password must be encrypted. Server can store user’s account to file or database.

- **Login**:

User logs in by email and password. If user logs in successfully, a token will be generated and returned to the user.

- **Forgot password**:

User clicks on “forgot password” link and input email from front-end. Server generates a token and sets that token to expire after 3 days. Server sends a confirmation email to user. That email consists of a link which has the token.

- **Update password**:

User clicks on the link in the email, he/she will be redirected to “update password” page. User inputs a new password. System checks availability of the token. If the token is valid, the new password will be updated for the user.

**Note:**

* It’s not necessary to code front-end for this exercises.
* Use Postman to test all the APIs.
* Submit your source code and Postman collection in order to be graded.