

SoftUni JS Back-End Exam Preparation Cheat Sheet

1. Initialize Project

- [x] Init npm project `npm init --yes`
- [x] Change module system
- [x] Add start file `/src/index.js`
- [x] Add Dev Script
- [x] Config Debugging

2. Express

- [x] Install express `npm i express`
- [x] Init express server
- [x] Add public resources
- [x] Setup static middleware
- [x] Add body parser middleware `app.use(express.urlencoded());`
- [x] Add home controller
- [x] Setup routes file
- [x] Add error page

3. Handlebars

- [x] Install handlebars `npm i express-handlebars`
- [x] Config handlebars as view enging
- [x] Config views file extensions
- [x] Change views directory
- [x] Add resources to views folder
- [x] Add home view
- [x] Add layout
- [x] Add partials dir
- [x] Config handlebars to read mongoose documents

4. Database

- [x] Install mongoose `npm i mongoose`
- [x] Setup db connection
- [x] Setup db connection error handling
- [x] Add basic user model

5. Register

- [x] Install bcrypt `npm i bcrypt`
- [x] Fix navigation links
- [x] Add register view
- [x] Add user controller
- [x] Add register page
- [x] Modify register form
- [x] Create post register action
- [x] Add user service with register
- [x] Hash password
- [x] Check rePassword
- [x] Check if user exists
- [x] Register user

6. Login

- [x] Add jsonwebtoken `npm i jsonwebtoken`
- [x] Add cookie parser `npm i cookie-parser`
- [x] Use cookie parser middleware
- [x] Add login view
- [x] Add login page
- [x] Fix login form
- [x] Add login post action
- [x] Add login method to user service
- [x] Validate user on login
- [x] Validate password on login
- [x] Add JWT_SECRET to global config file
- [x] Generate jwt token
- [x] Attach token to cookie
- [x] Login User
- [x] Auto login on register

7. Logout

- [x] Add logout action

8. Authentication

- [x] Auth middleware
- [x] Use auth middleware
- [x] Check if guest
- [x] Verify token
- [X] Handle invalid token

- [x] Attach user to request
 - [x] Attach user data to handlebars context
9. Authorization
- [x] Create isAuthenticated middleware
 - [x] Create isAuthenticatedGuest middleware
 - [x] Add route guards
10. Dynamic content
- [x] Dynamic navigation
 - [x] Dynamic titles
11. Error Handling
- [x] Add notification
 - [x] Error message in notification
 - [x] Add error message util
 - [x] Add error handling for register
 - [x] Persist form data in register form
 - [x] Add error handling for login
 - [x] Persist form data in login form
12. Bonuses
- [x] Set page title from view
 - [x] Export helpers to external file
 - [x] Temp data
 - [x] Install express session
 - [x] Use express session
 - [x] Add temp data middleware
 - [x] Use temp data middleware
 - [x] Async jsonwebtoken
 - [x] Add type declaration for promisified jsonwebtoken