Some of the OWASP Top Ten vulnerabilities in the code and how to address them include:

- A2:2017: Broken Authentication/A7:2021 Identification and Authentication Failures due to the code not implementing proper authentication mechanisms.
 - Implement proper authentication and session management using secure tokens (i.e. JWT) and ensure secure password storage.
- A3:2017 Sensitive Data Exposure/A2:2021 Cryptographic Failures due to passwords being stored in plain text in local storage.:
 - Hash passwords before storing them using a strong hashing algorithm (i.e. bcrypt).
- A5:2017 Cross-Site Request Forgery (CSRF)/A1:2021 Broken Access Control due to forms not including CSRF tokens.
 - Implement CSRF protection by including CSRF tokens in forms and validating them on the server side.
- A6:2017 Security Misconfiguration/A5:2021 Security Misconfiguration due to the application not enforcing HTTPS.
 - o Ensure that the application enforces HTTPS to protect data in transit.
- A7:2017 Cross-Site Scripting (XSS)/A3:2021 Injection due to user input being directly inserted into the DOM without sanitization.
 - Sanitize user inputs before inserting them into the DOM using libraries (i.e. DOMPurify to clean HTML inputs).
- A8:2017 Insecure Deserialization/A8:2021 Software and Data Integrity Failures due to data from localStorage being directly parsed and used.
 - Validate and sanitize data retrieved from localStorage before using it.

Notes taken on vulnerabilities while developing features for each module as defined per Sprint:

- 1. Having the same/similar names for IDs and other variables.
- 2. Module 4 allowing the user to simply reset password without verifying it is them (anyone could use an email and simply reset the password).
- 3. Saving data locally is dangerous.
- 4. Not casting username to either upper or lower case in case the user stores the data in one case and inputs in another (i.e. camel case).
- 5. Lack of input sanitization on user inputs before using it makes data vulnerable to cross-site scripting (XSS) attacks.
- 6. When creating a new account requirements only ask for an e-mail address (input type email) however when logging in it ask for a username (input type text) which could cause complications (i.e. creating a new account with an e-mail however having "admin" as a user).