**Major project documentation**

1. app.js: main file. Contains all routes and mongodb connection
2. Create a listing model: listing.js. Type of schema.
3. Initialize Database: data.js.
4. index.js: initialization logic.
5. Index route: index.ejs.
6. Show route: show.ejs
7. Create route: new button pe click karne ke baad ek form milega which you when submit will be a post request. new.ejs.
8. Update route: when you click on edit button, it will be a put request. edit.ejs.
9. Delete route
10. Creating a boilerplate: EJS Mate. Boilerplate.ejs. Include it on every ejs page.
11. Style.css.
12. Create a navbar using bootstrap. Navbar.ejs. Include it in boilerplate code. Same for footer.
13. Create a footer. Footer.ejs.
14. Add styling of both footer and navbar concurrently.
15. Created cards using bootstrap and styled them.
16. New and edit page styling using bootstrap forms. Style show page
17. Form validations: should send data in correct format (client-side validation) and follow db schema(backend). Use bootstrap form validation for every field. For both edit and new pages as well.
18. Custom wrapasync: wrapasync.js. better than try-catch block.
19. Custom express error: Expresserror.js. For all other routes (\*). Used with app.use path
20. Error.ejs: used to show errors to user in a nicer format. Use bootstrap alerts. Used with app.use
21. Schema validations: joi used (npm package) schema.js
22. Create a function validate listing to convert the schema validation in form of middleware.
23. Created review.js in models: 1) set up the reviews form in show ejs.

2) Submitting the form: create a route in app.js

1. Client-side validation for reviews. Validate review same as listing validation. Create a joi in schema.js and then require in app.js and create a function. (validateReview)
2. Showing reviews on show.ejs page. Used populate method. Adding styling to reviews. Deleting the reviews. Used mongo $pull operator.
3. Deleting listing: reviews also get deleted along that. Used a post middleware in listing.js
4. Used express router. Created listing.js and review.js. Basically, we shifted the specific routes from app.js to them. We need to require and “use” them in app.js
5. Made cookies.
6. Created Session and used connect-flash. For connect-flash 1) use flash in app.js and define middleware (success and failure) 2) in listing.js flashed a message 3) included in flash.ejs
7. Created flash.ejs. Included in boilerplate. Connect-flash in review.js
8. Used Passport for authentication. Created a User model (username, password, email). Passport local mongoose will add a username and password field by default. That’s why we define only email. Read docs in npm
9. User signup routes. GET and POST. User login. In login use passport authenticate.
10. req.authenticate in routes/listing to only allow authenticated users to create listing.

Script.js is made for the logic of “needs validation” class of bootstrap