

Post-It Application (Full Stack)

Task formulation

The task is to develop a web application to manage Post-It notes. A user should be able to:

- Create a note
- Update a note
- Delete a note
- View a list of notes
- Log in and out

User Interface

Please create the user interface defined in Appendix A using the latest versions of the Angular framework, Bootstrap CSS, and HTML5. You may use further dependencies as needed. You are not being judged on your design skills, but efforts must be made in making it look presentable. It should be responsive to screen size.

The app should be protected by a login screen and authentication is required to use the system. The login screen should be found at `"/login"`, and the Post-It tool itself should be at `"/"`. If the user has not been authenticated, they should not be able to use the application and are redirected back to the login. Any other route attempt should also result in a redirect to the login screen. If the user visits the login screen having already been authenticated, they should be forwarded to the application.

Back-end Application

Please create a Java-based application to handle requests from the UI. It should be used as an API to store and retrieve Post-It note data. You may choose any data storage mechanism you deem appropriate. A possible data model for the application is:

```
TABLE POSTIT(  
  text VARCHAR(250)  
);
```

Guidance

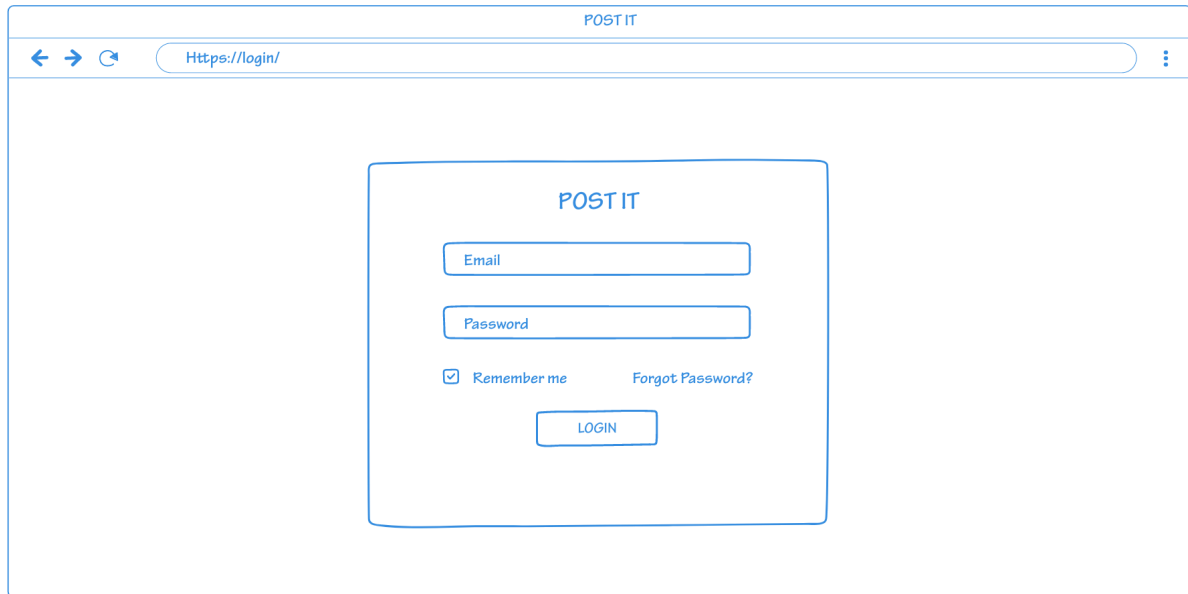
We're looking for:

- Technical creative flair
- A simple but attractive user interface with user experience considerations.
- Smart use of core libraries including standard Java frameworks.
- Suitable test coverage for both front and backend.

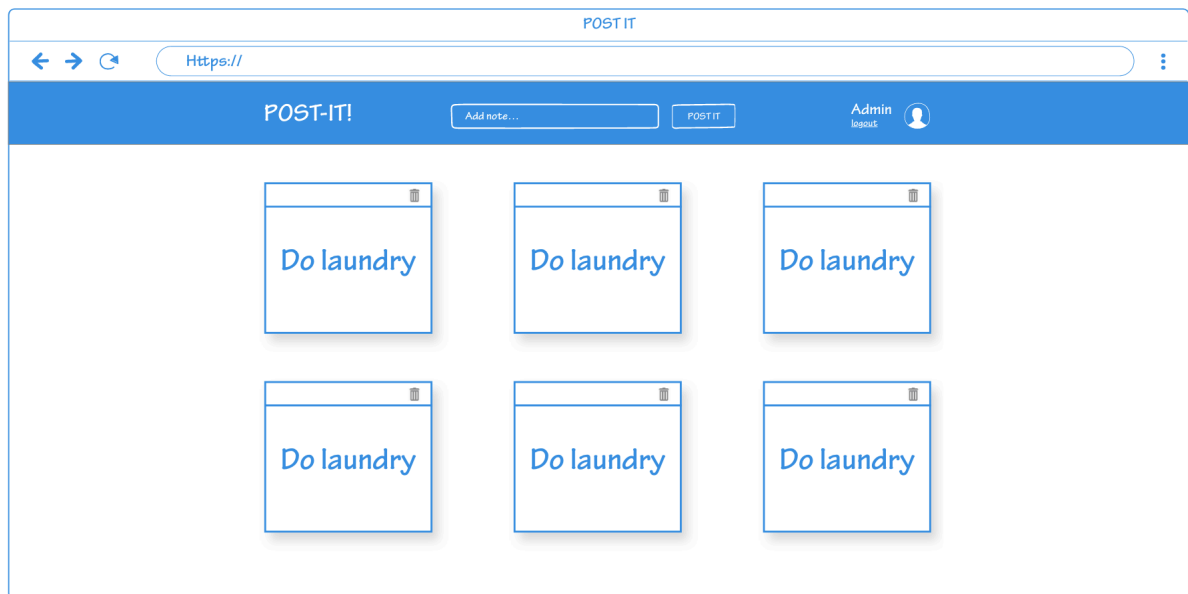
Please submit all code and any other resources required to run your application, you may also submit other documents relating to your solution if you wish. We believe the solution should take around 5 hours but feel free to spend longer if you would like to. Good luck!

Appendix A: UI Wireframes

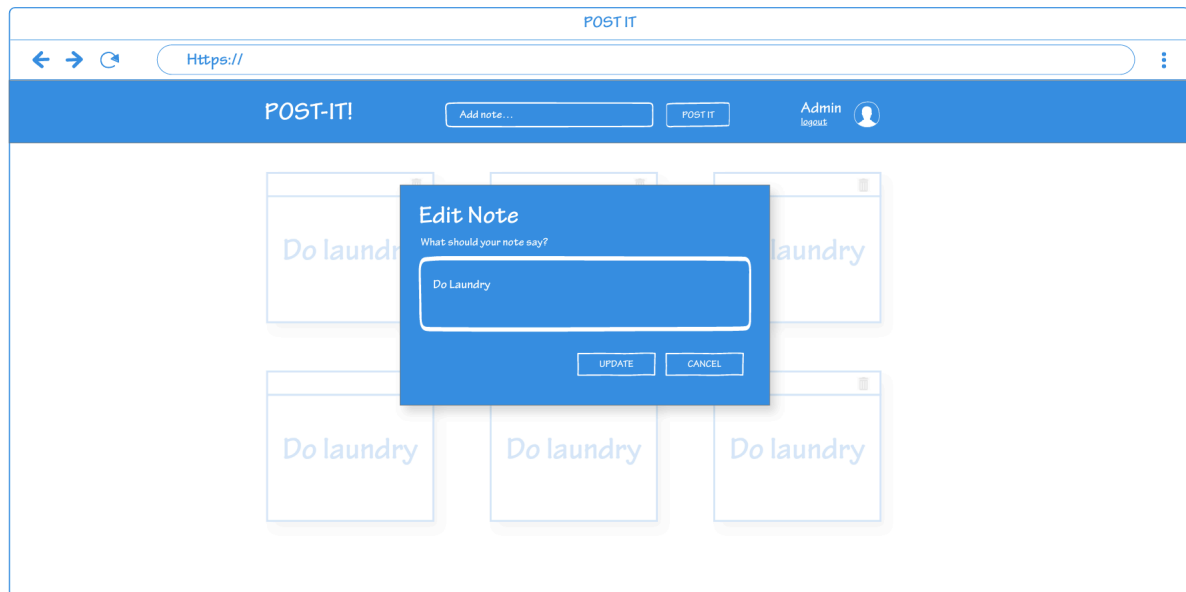
Below are simple wireframes for the application. Take these as a guide and feel free to embellish them however you like, but please remember that this is not a design task.



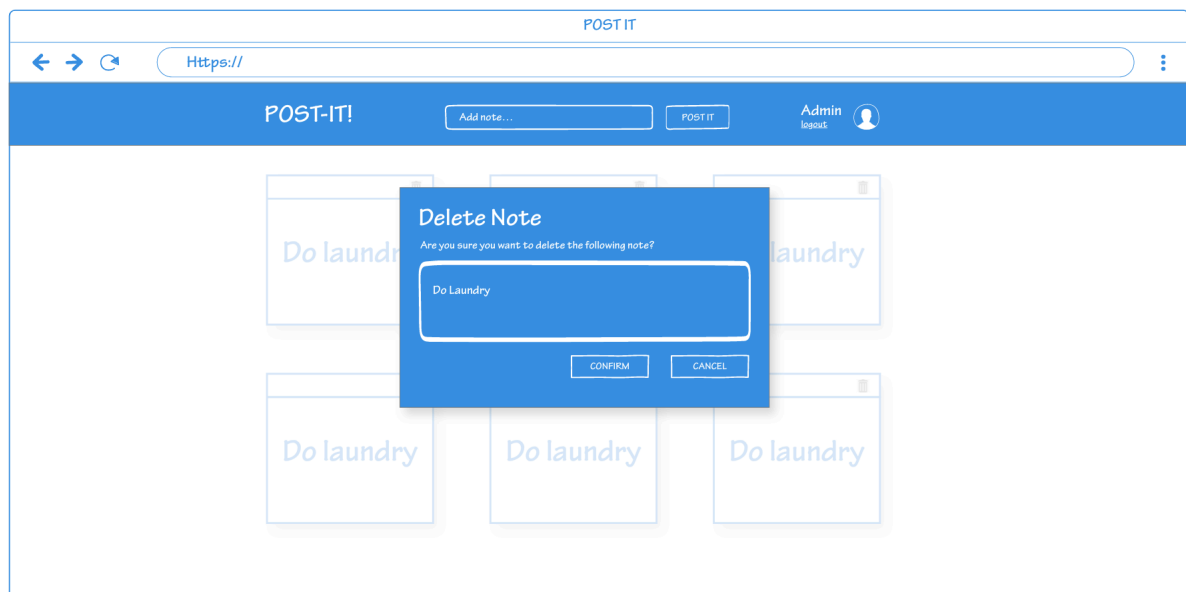
Log in Screen – Note: please use “admin” and “password” for credentials.



Notes listing - click on a note to edit it, click on the bin icon at the top to delete it.



Editing a note – click “update” to save back the changes, “cancel” to abandon the change.



Deleting a note – click “confirm” to delete the note, “cancel” to abandon the process.