Pest Detection App-

Backend Functionalities Required -

- 1) User Auth
 - a) User Login (OTP based login; don't send OTP just return as response in the api itself)
 - b) User Signup (Name, DOB, Company, Email, Mobile)
- 2) Pest Detection Api
 - a) Api should take an image and return a corresponding pest detection ratio for a pest(static random 0-1 value) eg. {[{pestName: "blue flies", detectionRatio: 0.8},{pestName: "black flies", detectionRatio: 0.3}], imageUrl: "http://abc.com/image1"}
 - b) This api should be used only by authenticated users
 - c) Rate Limitation should be possible based on userld .
- 3) Get All Searched Images
 - a) Api which will return all the searched images and their results
 - b) Filtering should be possible(Think which filters make sense and should be implemented)

Additional Functionalities -

- 1) Write Test cases
- 2) Using multiple databases if required
- 3) REST Apis
- 4) Using Reusable and modular code

Frontend Functionalities Required -

- 1) User Login and Signup Page
- 2) Tile based gallery to view all past images
- 3) Filters
- 4) Pest Detection module
 - a) File upload
 - b) File upload progress bar
 - c) Uploaded File Preview
 - d) Result View snackbars pestName and detectionRatio

Additional Functionalities -

- 1) Proper Error handling and Displaying proper errors based on api response
- 2) Extra points for using Redux for state Management
- 3) Responsive UI for gallery View

We Expect the code to be uploaded on git. Use git for the entire production.