

## React Native Assignment: Document Management System Interface

Develop a mobile application using React Native that allows users to manage documents effectively. The app should enable users to upload, tag, search, preview, and download documents seamlessly. While the backend is built with .NET and MySQL, your primary focus will be on the frontend implementation.

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### 1. Project Setup

#### 1.1. Initialize a New React Native Project

- Use `npx react-native init DMSApp` to create a new project.
- Set up a GitHub repository and provide the URL at the beginning of your assignment.

#### 1.2. Configure Project Structure

- Implement navigation using `@react-navigation/native`.
  - Organize your project into components, screens, and services directories.
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### 2. Login

#### 2.1. OTP-Based Login

- Implement a login screen where users can enter their mobile number.
  - Upon submission, an OTP is sent to the user's mobile number.
  - Provide an interface for users to enter the received OTP.
  - Upon successful verification, store the received token for authenticated requests.
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### 3. File Upload

#### 3.1. Develop a File Upload Component

- Include a Date Picker for selecting the document date.
  - Add a Dropdown to select between 'Personal' and 'Professional' categories (major\_head).
  - Based on the first selection, populate a second Dynamic Dropdown:
    - If 'Personal' is selected, show names like John, Tom, Emily, etc.
    - If 'Professional' is selected, show departments like Accounts, HR, IT, Finance, etc. (minor\_head).
  - Implement a Tag Input Field to add document tags as tokens/chips.
    - Fetch pre-existing tags from the provided endpoint.
    - Allow users to add new tags, which should be saved automatically.
  - Include a Text Field for remarks.
  - Restrict file uploads to Image and PDF formats only. (There must be an option to upload or take picture from camera)
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### 4. File Search

#### 4.1. Create a Search Component

- Allow users to select categories from dropdown lists.
  - Provide an input field for tags.
  - Include 'From Date' and 'To Date' pickers to filter search results based on date range.
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## 5. File Preview and Download

### 5.1. Display Search Results

- Show a list of documents matching the search criteria.
- For each document, provide options to:
  - Preview:
    - If the document is an image or PDF, display a preview within the app.
    - For unsupported types, show a message indicating that preview is not available.
  - Download:
    - Allow users to download individual files.
    - Provide an option to download all files as a ZIP archive.

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### Additional Instructions

- State Management: Utilize React's Context API or state management libraries like Redux to manage application state.
- Responsive Design: Ensure the application is responsive and functions well on various device sizes.
- Documentation: Include clear documentation and setup instructions in a README file.
- Contact: For any doubts or queries regarding the assignment, reach out to nk@allsoft.co.
- Postman Collection: Refer to the attached JSON file provided with the assignment email.

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### Submission Guidelines

- Submit the assignment within 2 days. If unable to complete the entire assignment, submit the progress made. Evaluation will be based on the submitted work.
- Provide the GitHub repository URL as your final submission. Include any necessary mock data or scripts.
- Ensure the README file details how to run the application and tests, along with a brief project overview.
- Commit and push code incrementally to the Git repository from the moment Git is initialized. Avoid a single, final push.
- Every bug fix during unit testing and every new feature added must be committed and pushed incrementally to ensure a structured development approach.
- All commits must have meaningful commit messages that clearly describe the changes made.

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This assignment evaluates your skills in React Native development, focusing on creating interactive, user-friendly mobile interfaces, application state management, responsive design, and effective use of version control systems. Good luck!