


## Angular 18 Practical Assignment (PART – III)

- a. Make a Todo app where you can add, edit, and delete tasks (using mock data)

*Example:*  Grocery list app where you add, change, or remove items.

- b. Style your forms and cards with Angular Material components

*Example:*  Create a nice feedback form with colorful buttons and cards.

- c. Show a list of products and let users filter by category (mock data)

*Example:*  Like shopping on Amazon, filter electronics or clothes.

- d. Make a popup asking “Are you sure?” before deleting something

*Example:*  When deleting a contact, show a confirmation dialog.

- e. Use a shared data service so different parts of your app know if the user is logged in

*Example:*  Facebook showing “Online” status everywhere after login.

- f. Create tabs to switch between different info about a product

*Example:*  Tabs for Overview, Reviews, and Details on a book page.

- g. Load a part of your app only when the user wants it (lazy loading with mock data)

*Example:*  Load “Reports” page only when clicked.

- h. From the parent component, reset a form inside a child component

*Example:*  Click “Clear” to empty the feedback form below.

- i. Load different components dynamically based on user choice

*Example:*  Show chart or  table based on user selection.

- j. Create a generic card where you can put any content inside (using ng-content)

*Example:* 📷 Greeting card with name, picture, and message inside.

- k. Save user theme choice (light or dark) so it stays next time they visit

*Example:* 🌙 Remember dark mode like YouTube.

- l. Show a list of messages with a delay, like loading from an API (mock observable)

*Example:* 💬 Messages appear 1 second after opening chat.

- m. Create a form that has multiple steps like a wizard

*Example:* 📋 Step-by-step loan application form.

- n. Show a toast message like "Saved successfully" after an action

*Example:* ✅ Small popup after submitting comment.

- o. Show a loading spinner while your mock data is being fetched

*Example:* ⌚ Spinning circle while videos load.

- p. Warn the user if they try to leave a page with unsaved form data

*Example:* ⚠️ Alert when closing email draft without saving.

- q. Make a user table with pagination, sorting, and filtering (mock data)











*Example:* 👤 Employee list with next/previous buttons and search box.

- r. Drag and drop tasks between "To Do" and "Done" lists

*Example:* 📌 Move sticky notes between boards.

- s. Create a reusable popup/modal that shows any message

*Example:* 💬 Confirmation dialogs reused across app.

- t. Show sales data on charts using mock data  
*Example:*  Bar chart showing monthly sales.
- u. Make a complex form with nested groups (like address inside user details)  
*Example:*  User form with name and nested address fields.
- v. Create a custom pipe to format phone numbers  
*Example:*  Format 1234567890 as (123) 456-7890.
- w. Preload user data before navigating to a profile page (mock resolver)  
*Example:*  Load profile info before page shows.
- x. Add smooth animations when switching pages  
*Example:*  Fade effect when moving between pages.
- y. Create a cart service to add/remove products in a shopping cart  
*Example:*  Add items, change quantity, remove items.
- z. Save login session in browser sessionStorage  
*Example:*  Stay logged in until browser closes.
- aa. Create a search bar that filters city names as you type (with debounce)  
*Example:*  Search cities and show filtered list.
- bb. Show nested menus like categories and subcategories  
*Example:*  Shopping menu: Electronics > Phones > Smartphones.
- cc. Log user clicks or actions to an array for analytics (mock data)  
*Example:*  Count clicks on "Buy" button.

dd. Show friendly error messages when mock service fails

*Example:* ✕ Show “Failed to load data” on error.

ee. Simulate real-time notifications by sending messages every few seconds

*Example:* 📧 New chat messages every 3 seconds.

ff. Auto-focus the first input field when a form loads

*Example:* 🔍 Focus on username box on login.

gg. Show/hide menu items based on user role (admin or guest)

*Example:* 👤 Admin sees “Manage Users”, guest doesn’t.

hh. Use query parameters to filter blog posts by author or category

*Example:* 🔗 URL ?author=John shows John’s posts.

ii. Keep track of pages visited and show history

*Example:* 📄 Show last 5 pages visited.

jj. Create custom validator to check if password and confirm password match

*Example:* 🔑 Password and confirm password matching.

kk. Show a progress bar that moves from 0 to 100% when uploading a file (mock)

*Example:* 📁 Upload profile picture with progress bar.

ll. Show notification messages that disappear after 3 seconds

*Example:* 🗋️ “Message sent” toast fades automatically.

mm. Use resolver and spinner to load invoice details before showing page

*Example:* 🔄 Show spinner while loading invoice.

nn. Create FAQ section where clicking a question shows/hides the answer

*Example:*  Help page with expandable questions.

oo. Save user language preference (e.g., English or Hindi) and load accordingly

*Example:*  User selects language and UI changes.

pp. Change navbar style when user scrolls down the page

*Example:*  Navbar shrinks or changes color on scroll.

qq. Use trackBy in \*ngFor to make rendering big lists faster

*Example:*  Render 1000 products efficiently.

rr. Add date picker to select birthdate in a form

*Example:*  Pick birthday from calendar popup.

ss. Show order status with different colors (Delivered, Pending, Shipped)

*Example:*  Green=Delivered, =Pending, =Shipped.

tt. Create dynamic routes using blog post titles (slug)

*Example:*  URL /blog/how-to-code-angular from title.

uu. Show the UI in different languages using mock translation data

*Example:* us English and IN Hindi versions of app text.

vv. Warn user if they try to leave a form with unsaved changes (custom directive)

*Example:*  Alert "You have unsaved changes" before exit.

ww. Show a notification bell with count of unread messages

*Example:*  Bell icon with red bubble showing "3".

xx. Deploy your Angular app to GitHub Pages or Netlify with mock data

*Example:* 🌐 Host portfolio site showing projects and testimonials.

