

# Tecnvions Pvt LTD

## Interactive Dashboard Assignment

Time: 15/9/25 | Focus: Modern UI + Charts/Graphs

### Simple Goal

Create a **beautiful, interactive dashboard** with data from any backend. Show us your UI design skills and ability to use modern libraries.

---

### Tech Stack (Choose One)

#### Option A: React

**Must Use These Modern Libraries:**

1. **Recharts** or **Chart.js** - For charts/graphs
2. **Framer Motion** - For smooth animations
3. **TanStack Query** - For API calls
4. **Tailwind CSS** - For modern styling

#### Option B: Flutter

**Must Use These Modern Libraries:**

1. **FL Chart** or **Syncfusion Charts** - For charts/graphs
  2. **Flutter Animate** - For animations
  3. **Riverpod** - For state management
  4. **HTTP** package - For API calls
- 

### Backend Options (Pick Any One)

**Easy Options:**

1. **Supabase** - Create free account, make simple tables
2. **JSON Server** - Local fake API with sample data

3. **Airtable API** - Spreadsheet as database
4. **Any REST API** you prefer

### Sample Data Ideas:

- Sales data (revenue, products, regions)
  - User analytics (signups, activity, demographics)
  - Task/project data (completion rates, priorities)
  - Any business data you like!
- 

## Requirements (Keep It Simple!)

### Part 1: Setup

- Set up project with chosen tech stack
- Create or connect to your backend/API
- Install required libraries

### Part 2: Dashboard UI

#### Must Have Components:

1. **Stats Cards**
  - 3-4 key metrics at the top
  - Numbers with icons and colors
  - Smooth counter animations
2. **Chart #1: Line/Bar Chart**
  - Show trends over time
  - Interactive tooltips
  - Smooth animations when data loads
3. **Chart #2: Pie/Donut Chart**
  - Show data breakdown/categories
  - Interactive hover effects
  - Color-coded segments
4. **Data Table**
  - List view of raw data
  - Sortable columns
  - Search/filter functionality

#### Modern UI Requirements:

- **Dark theme** (professional look)
- **Responsive design** (works on mobile)
- **Loading states** (skeleton screens, not spinners)
- **Smooth animations** throughout
- **Clean, minimal layout**

## Part 3: Interactivity

- **Date range filters**
- **Click interactions** on charts
- **Hover animations**
- **Search functionality**

## Part 4: Polish

- Test responsiveness
  - Smooth all animations
  - Clean up code
- 

# Design Guidelines

## Make It Look Crazy Good:

- **Modern colors:** Dark background, colorful accents
- **Typography:** Different font weights, proper hierarchy
- **Spacing:** Consistent padding/margins
- **Shadows:** Subtle depth with box-shadows
- **Gradients:** Use in charts and cards
- **Icons:** Use throughout for visual interest

## Animation Requirements:

- Cards should **fade in** on page load
  - Charts should **animate in** with stagger effect
  - Numbers should **count up** smoothly
  - Hover effects on **every interactive element**
- 

## Video Deliverable (3-4 min)

1. **Dashboard Demo** (2 min)
    - Show the complete dashboard
    - Demonstrate all interactions
    - Show mobile responsiveness
  2. **Technical Overview** (1-2 min)
    - Explain library choices
    - Show key code snippets
    - Highlight interesting features
-

# Evaluation

## What We're Looking For:

1. **Visual Design** (40%) - Does it look modern and professional?
2. **Animations** (25%) - Smooth, polished interactions?
3. **Charts/Graphs** (20%) - Two working visualizations?
4. **Code Quality** (15%) - Clean, organized code?