

# **Project Brief – Multi-Purpose Client Dashboard**

**Client:** *NexaSphere Solutions (fictional SaaS consultancy)*

**Developer:** *Francois le Roux*

**Project:** *Customizable Multi-Purpose Dashboard*

**Purpose:** Provide NexaSphere's clients with a central hub to manage productivity tools, personal insights, and data widgets in a sleek, modern interface.

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## Project Objectives

NexaSphere Solutions has requested the development of a **web-based dashboard application** to offer their clients a **customizable, user-friendly, and secure control center**. The dashboard must allow users to:

1. **Personalise their workspace** by adding, removing, and rearranging widgets.
  2. **Access basic functionality as guests**, while encouraging account creation for advanced features.
  3. **Switch between themes** (light/dark/custom palettes) to tailor their experience.
  4. **Access real-time data** (e.g., weather, quotes, finance) using free APIs.
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# Deliverables

## 1. Landing / Welcome Page

- Introduces the product with a clean, modern design.
- Options to **Sign Up / Login** or **Continue as Guest**.

## 2. Authentication System

- Guest access with limited features.
- Registered users gain access to all widgets and persistent storage.
- Authentication via **Firebase Auth** or mock localStorage implementation.

## 3. Dashboard (Core Application)

- Modular **widget-based layout** (React components).
- **Drag-and-drop grid system** (powered by [redacted]).
- **Data persistence** (localStorage for guests, Firestore for registered users).
- Responsive design for desktop and mobile.

## 4. Widget Gallery / Store

- Users can browse available widgets and add them to their dashboard.
  - Guest users see some widgets locked with a prompt to sign up.
  - Registered users can access full functionality.
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# Planned Widgets

- **Basic Widgets (Available to All Users):**
    - Clock & Date
    - Motivational Quotes (API/static list)
    - To-Do List
    - Notes Pad
  - **Advanced Widgets (Registered Users Only):**
    - Weather (OpenWeatherMap API)
    - Habit Tracker
    - Calendar / Events
    - Optional: Pomodoro Timer, Crypto Prices (Coingecko API), News Feed
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# Design & User Experience

- Built with **React + TailwindCSS + shadcn/ui** for a modern, professional aesthetic.
  - **Framer Motion** for smooth transitions and widget animations.
  - **Theming System:** Light/Dark modes and optional color palettes.
  - **Responsive Layout:** Optimized for desktops, tablets, and mobile devices.
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## Technical Stack

- **Frontend:** React, TailwindCSS, shadcn/ui
  - **Drag-and-Drop System:**
  - **Authentication & Database:** Firebase (free tier)
  - **Data Sources:** OpenWeatherMap, Unsplash, Quotes API, Coingecko (all free tiers)
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## Business Value for NexaSphere

- Provides a **multi-purpose, modular dashboard** adaptable to different client needs.
  - **Freemium model simulation:** Guest users get value, but are incentivized to register.
  - **Customization & Theming** enhance user satisfaction and engagement.
  - **Extensible architecture** allows future widget development as client needs evolve.
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## Deliverables Timeline

- **Week 1:** Project setup, Landing & Auth screens
  - **Week 2:** Core dashboard + drag-and-drop layout
  - **Week 3:** Implementation of basic widgets + theme switcher
  - **Week 4:** Advanced widgets + guest vs registered access
  - **Week 5:** Polishing, testing, and deployment
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## **Final Deliverable**

A **fully functional, multi-purpose web dashboard** that NexaSphere can roll out to its clients, offering both a **professional design** and **scalable feature set** to demonstrate their commitment to modern digital solutions.