# Higuera Azure Project Dashboard

This repository contains two main parts:

1. **Next.js Front End**: A React‑based dashboard UI at /pages/dashboard/index.js that reads data from public/data/data.json.
2. **Azure Functions Back End**: Serverless APIs under /exportExcel and /sendEmail to export an Excel report or send an executive summary email.

## Prerequisites

* Node.js (>=18) and npm
* Azure Functions Core Tools (for local function host)
* Git (for source control)

## Folder Structure

/Users/erikherring/HigueraAzureFunction  
├─ public/data/data.json # JSON source for dashboard  
├─ pages/dashboard/index.js # Dashboard page  
├─ components/ # React UI components  
│ └─ HoursTrackingChart.tsx # Chart for hours tracking  
├─ exportExcel/ # Azure Function to generate Excel  
│ └─ index.js  
├─ sendEmail/ # Azure Function to send email  
│ └─ index.js  
├─ excel-export-test/ # Standalone Excel script (Node)  
│ └─ generate-excel.js  
├─ infra/ # Bicep IaC templates  
│ └─ main.bicep  
├─ README.md # This file  
└─ package.json # npm scripts & dependencies

## Quick Start

### 1. Install dependencies

cd /Users/erikherring/HigueraAzureFunction  
npm install

### 2. Run Next.js front end

npm run dev

* Open your browser at http://localhost:3000/dashboard
* Edit public/data/data.json and refresh to see updated KPIs, charts, and tables.

### 3. Run Azure Functions locally

cd /Users/erikherring/HigueraAzureFunction  
func host start

* Functions are available at http://localhost:7071/api/exportExcel and /api/sendEmail.

### 4. Generate Excel report manually

npm run generate-excel

* Reads public/data/data.json and writes test\_excel\_export.xlsx to the project root.

## Editing Data

1. Open /public/data/data.json
2. Update fields under:
   * kpis (budget, spent, remaining)
   * hoursTracking (dates, weekly data)
   * schedule (task completion)
   * issues, recentUpdates
3. Save and refresh the dashboard or rerun the Excel script.

## Deployment

1. Commit your changes:

* git add . && git commit -m "Update dashboard data or code"

1. Run your CI/CD pipeline or deploy with Azure Developer CLI:

* azd up # provisions infra & deploys functions + static site

## Troubleshooting

* **Missing modules in Functions**: Reinstall dependencies and restart the host:
* npm install  
  func host start
* **Build errors** in Next.js: Remove unsupported experimental.appDir in next.config.js.

For any questions, contact the engineering team or refer to the internal wiki.