PORTALNEST - COMPREHENSIVE DOCUMENTATION

OVERVIEW

PortalNest is a school management system designed to streamline and centralize institutional administration. It provides tools for student admissions, course management, faculty and department organization, grading, and real-time analytics.



FOR SCHOOL OWNERS

- Manage staff roles and permissions
- · Oversee admissions & student records
- Create and update courses & faculties
- Control grading policies & reports

FOR STAFF & MANAGERS

- Role-based access to:
 - Admissions
 - Student records
 - Grading & exams
 - Courses & departments

FOR STUDENTS

- Access academic records & results
- Apply for admissions & register for courses
- View announcements & schedules



Frontend	HTML, CSS, JavaScript
Backend	Firebase Firestore (database)
Authentication	Firebase Authentication
Hosting	Firebase Hosting

AUTHENTICATION & ROLE MANAGEMENT

- Institution Code: Links users to their respective schools
- Role-based Access Control: Permissions stored in Firestore
- Dynamic UI Rendering: Adjusts based on user role



PROJECT STRUCTURE

The repository consists of multiple directories and files. Below is an overview:

KEY DIRECTORIES & FILES

Directory/File	Purpose
index.html	Main landing page
components/	HTML components (header, footer, dashboard UI)
functions/	JavaScript functions for different modules
firebase/	Firebase authentication & database scripts
style/	CSS styles for the UI
pages/	Individual pages for admissions, services, student portal
data/	JSON files containing application data

T CORE FUNCTIONALITIES

AUTHENTICATION & SIGN UP

- firebase/auth/signUp-gain_admission.js
 - Registers new students
 - Stores details in Firestore
 - Handles sign-up validation
- firebase/auth/login_student-portal.js
 - Implements email/password login
 - Uses Firebase authentication persistence

STUDENT MANAGEMENT

- firebase/students/create.js Handles new student registration
- firebase/students/update.js Updates student records

SCHOOL & FACULTY MANAGEMENT

- firebase/Schools/read.js Fetches approved schools
- firebase/Faculty/read.js Retrieves faculty data
- firebase/Department/read.js Retrieves departments by school ID

ADMISSIONS & APPLICATIONS

- functions/application-form.js Multi-step admission form processing
- Form validation & auto-save

DASHBOARD & USER INTERFACE

- functions/dashboard-tab-functions.js Controls dashboard interactions
- functions/help-desk.js Manages help desk & support tickets

🎨 UI & STYLES

- style/main.css Global styles
- style/studentHome.css Student dashboard styling
- components/header.html Main navigation
- components/footer.html Footer with newsletter subscription & contact info