



Final Demo Report

IZTECH Graduation Application

Project Members

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Implemented Use Cases

Register

Login

Create an application

Upload required documents

Application Status

List applications

List Department's Confirmed Applications

Set interview date and location.

Student Review

Enter Assessment Results

Application Review

Confirm & Announce Assessment Results

Password Reset

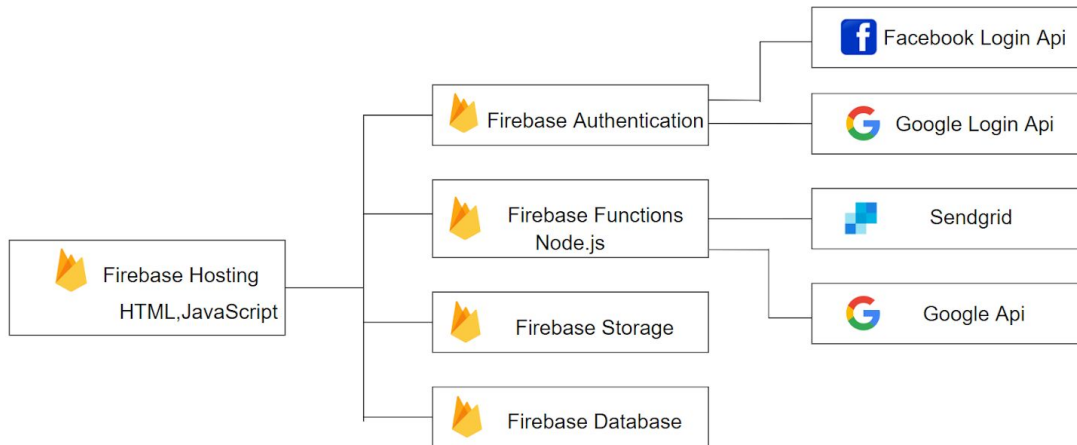
Account Settings

List Department's Programs

Add/Remove Programs to/from the Department

List Available Programs

Architecture of the Implementation



Technologies

This demo is implemented using the technologies given below:

Languages: HTML, CSS, Javascript

CSS Frameworks: Bootstrap 4.4

Services: Firebase (Realtime Database, Authentication, Cloud Storage, Cloud Functions, Hosting)

APIs: Google Login API, Facebook Login API, Sendgrid

Development and testing: Node.js, Firebase CLI Tools and Firebase Console.

Source Code Editor: Visual Studio

Software Development Version Control: Git (Github)

HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. All the paragraphs, sections, images, headings and text are written in HTML. The content appears on the website in the order they are written in HTML.

CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation of a document written in a markup language like HTML. It enables the separation of presentation and content, including layout, colors, and fonts. We used CSS because It takes the website from plain text elements to colorful designs.

Javascript is a scripting language that enables us to create dynamic activity on apps such as dynamically updating content, control multimedia and animate images. As a multi-paradigm language; it supports functional, event-driven and imperative programming styles. Scripting in JavaScript is what controls functions when buttons are clicked, how password forms are authenticated, how media is controlled e.g.

Bootstrap helps us quickly design and customize responsive sites, it's a front-end open source toolkit. It contains CSS and JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Node.js is a JavaScript runtime environment that executes JavaScript code outside of a web browser. We used Node.js because it lets us use JavaScript to write command line tools and for server-side scripting and running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

Firebase CLI Tools adds all necessary Firebase service libraries to our project. Also it lets us deploy our project to the Firebase hosting server.

Firebase Console lets us manage all firebase services (Realtime Database, Authentication, Cloud Storage, Cloud Functions, Hosting) we use from one place.

Visual Studio Code is a source code editor with many features like debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.

Git is used as a distributed version-control system for tracking changes in source code during software development. It helps us coordinate work among us.

Github provides hosting for software development version control using Git.

Work breakdown

Zekihan AZMAN

Register

Google Login, Facebook Login

Phone verification

Create an application

Upload required documents

List applications

List Department's Confirmed Applications

Confirm & Announce Assessment Results

Interface design of each use case

Kaan ALGAN

Facebook Login

Email Login

Department's list applications

Department's applicant details

Grad school's application details

Grad school's list applications

User Settings (Reset Password, Change Phone, Delete Account)

Grad School's List Departments

Confirm & Announce Assessment Results

Application status

List Accepted Applicants

Interface design of each use case

Kemal Selçuk KAPLAN

List Department's Programs

List Available Programs

Add Program to the Department

Remove Program From the Department

Baran ATEŞ

List Department's Programs

List Available Programs

Add Program to the Department

Remove Program From the Department

Efe Can CEVHER

Applicant Guide

Department Student Review

Department Set Interview

Login State Check

Role Redirection, Control

Forgot My Password (Reset Password)

Consistent Sidebar - Navbar

Responsive Web Design - Front End Rework and Optimizations