System Design Document

Steadfast Solutions

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Contents

1	CRO	C Cards	2
	1.1	App	
	1.2	SignUp	
	1.3	SignIn	
	1.4	SignInCallback	
	1.5	AuthProvider	
	1.6	AlertMessage	
	1.7	Navbar	
	1.8	AlertMessage	
	1.9	PillButton	
	1.10		
	1.11	SubmitButton	
	1.12	2 TextInput	4
		Joblisting	
		4 JobseekerProfile	
	1.15	5 User	4
	1.16	SearchBar	
		7 Search	
		8 Resume API	
		9 Job Seeker	
		ElevatorPitch	
		l Profile	
	1.22	2 Skills	6
	1.23	3 Summary	6
		4 WorkExperiences	
	1.25	5 Section	6
	1.26	6 ProfilePage	6
	1.27	7 Job Listing UI	
		8 Job	
	1.29	Job Listing API	
		Recruiter Profile	
2	Soft	tware Architecture Diagram	8

1 CRC Cards

1.1 App

CRC card:

Parent class: N/A

Subclasses: SignInCallback, SignIn, SignUp, Search, Welcome

Collaborators: Navbar

Responsibilities:

Handles routing to the requisite subclasses, which receive routing information from App, and creates base pages.

1.2 SignUp

CRC card:

Parent class: App Subclasses: N/A

Collaborators: AuthProvider, AlertMessage, PillButton, Spacer,

SubmitButton, TextInput

Responsibilities:

Signs up users who provide their information.

1.3 SignIn

CRC card:

Parent class: App Subclasses: N/A

Collaborators: AuthProvider, AlertMessage, PillButton, Spacer,

SubmitButton, TextInput

Responsibilities:

Signs in users who bear correct credentials.

1.4 SignInCallback

CRC card:

Parent class: App Subclasses: N/A

Collaborators: AuthProvider

Responsibilities:

Signs in users who are returning from an external authentication provider.

1.5 AuthProvider

CRC card:

Parent class: N/A Subclasses: N/A

Collaborators: React.Context

Responsibilities:

Provides authentication interface for other classes.

1.6 AlertMessage

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Provides alert messages for the UI.

1.7 Navbar

CRC card:

Parent class: N/A Subclasses: N/A

Collaborators: AuthProvider

Responsibilities:

Provides navigation bar component for UI.

1.8 AlertMessage

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Provides alert messages for the UI.

1.9 PillButton

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Provides a standard button for UI.

1.10 Spacer

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Provides a standard spacing utility for UI.

1.11 SubmitButton

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Renders a submission button with multiple states (active, pending, success).

1.12 TextInput

CRC card:

Parent class: N/A Subclasses: N/A Collaborators: N/A Responsibilities:

Provides a styled text input for UI.

1.13 Joblisting

Parent class: N/A
Subclasses: N/A
Collaborators: N/A
Responsibilities:

Stores information data about individual job listings.

1.14 JobseekerProfile

Parent class: N/A
Subclasses: N/A
Collaborators: N/A
Responsibilities:

Stores information data about individual user profiles that are job seekers.

1.15 User

Parent class: N/A
Subclasses: N/A
Collaborators: N/A
Responsibilities:

Stores login and authentication details of all users.

1.16 SearchBar

Parent class: N/A Subclasses: N/A

Collaborators: JobseekerProfile, AuthContext

Responsibilities:

1. Sends parameters to current page about location and keywords. 2. Send location and keyword parameters based on current user profile.

1.17 Search

Parent class: App Subclasses: N/A

Collaborators: JobseekerProfile, AuthContext, SearchBar, Job-

listing

Responsibilities:

1. View list from filtered search results of all job listings.

1.18 Resume API

 ${\bf Parent\ class:\ resume Controller.js}$

Subclasses: N/A

Collaborators: JobseekerProfile

Responsibilities:

Allows users to upload a PDF resume in their profile.

1.19 Job Seeker

Parent class: N/A
Subclasses: N/A
Collaborators: N/A
Responsibilities:

An object representing a job seeker, which stores identifying information and job specific data like skills and education. It contains a field that ties itself to a User object.

1.20 ElevatorPitch

Parent Class: N/A

Collaborators: Section

Responsibilities:

When clicked, the user's elevator pitch will play in a popup.

1.21 Profile

Parent Class: N/A

Collaborators: Section Responsibilities:

Contains contact information about the user like name, phone number, etc.

1.22 Skills

Parent Class: N/A

Collaborators: Section

Responsibilities:

Displays any skills the user wants to showcase. Users can also delete and add skills here.

1.23 Summary

Parent Class: N/A

Collaborators: Section

Responsibilities:

Quick summary of a user. Users can also update their profile summary as necessary.

1.24 WorkExperiences

Parent Class: N/A

Collaborators: Section

Responsibilities:

Displays any work experiences the user wants to showcase. Users can also delete and add work experiences here.

1.25 Section

Parent Class: N/A Collaborators: None

Responsibilities:

Section template for profile page.

1.26 ProfilePage

Parent Class: N/A

Collaborators: Profile, ElevatorPitch, Summary, Skills, WorkEx-

periences

Responsibilities: Displays profile page.

1.27 Job Listing UI

Parent Class: Search

Collaborators: Joblisting, Job

Responsibilities:

Displays information about listings, displays a second card that shows more details depending on state.

1.28 Job

Parent Class: Job Listing UI Collaborators: Joblisting

Responsibilities: Displays information about specific listing, change state

in Parent when clicked on.

1.29 Job Listing API

Parent class: jobListingController.js

Subclasses: N/A

Collaborators: server.js

Responsibilities:

Allows recruiters to create job listings. Job details from create jobs form are parsed and passed into the various methods in the API.

1.30 Recruiter Profile

Parent class: RecruiterProfile.js

Subclasses: N/A Collaborators: N/A Responsibilities:

Mongoose model to store recruiter profile information.

2 Software Architecture Diagram

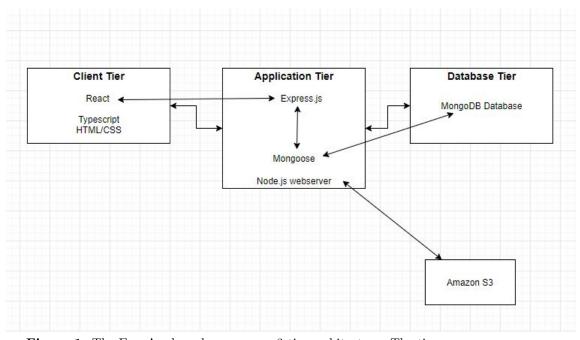


Figure 1: The EasyApply web app uses a 3-tier architecture. The tiers are Client, Server, and Database

Reference: https://levelup.gitconnected.com/a-complete-guide-build-a-scalable-3-tier-architecture-with-mern-stack-es6-ca129d7df805