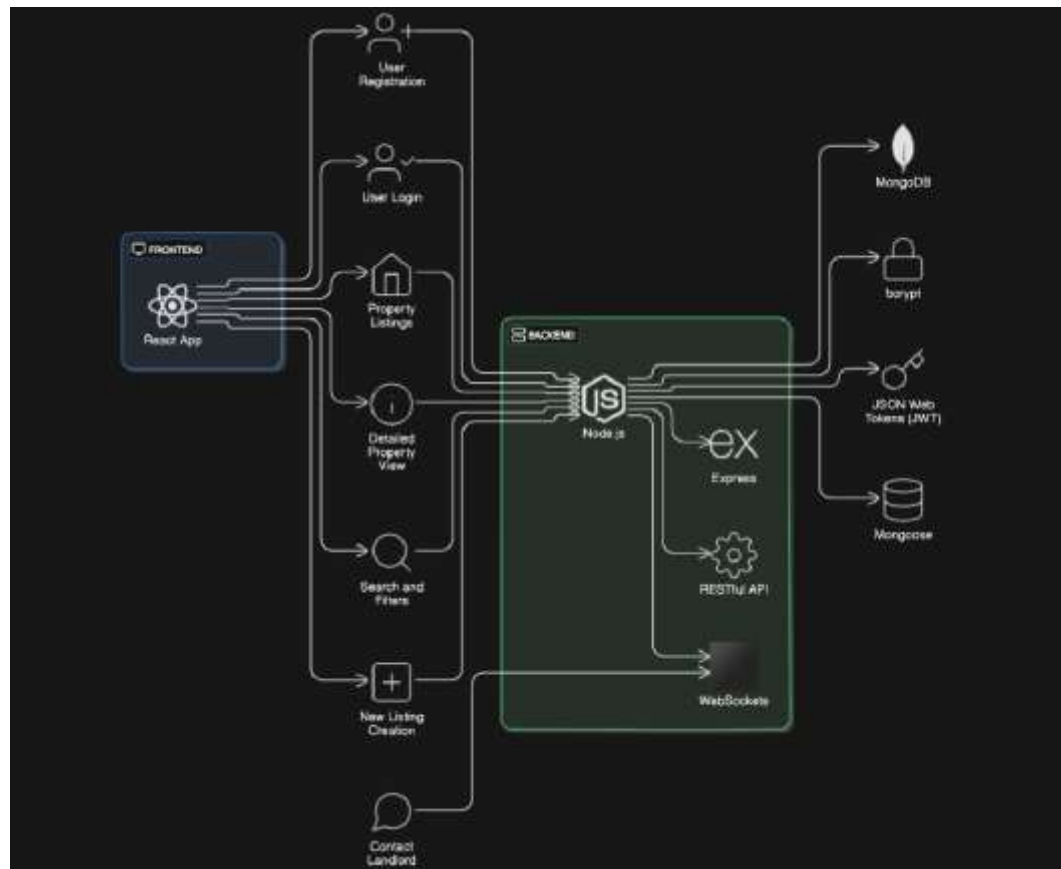


## Requirement Gathering and Analysis Phase Technology Stack (Architecture & Stack)

Date	06 July 2024
Team ID	SWTID1720069738
Project Name	House Hunt
Maximum Marks	4 Marks

### TECHNICAL ARCHITECTURE:



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Registration	Allows users to signup for an account	React,Node.js,Express,MongoDB
2.	User Login	Allows users to log in to their accounts.	React, Node.js, Express, MongoDB
3.	Property Listings	Display available properties for sale	React,MongoDB
4.	Detailed Property view	Shows detailed information about a specific property	React,MongoDB
5.	Search and Filters	Provides search and filtering options for property listings	React,MongoDB
6.	Contact Landlord	Allows users to send messages to landlords	WebSockets,Node.js
7.	New Listing Creation	Allows users to create new property listings	React,Node.js,Express

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Utilizes React for building the frontend, and Express for building the backend, with Node.js as the runtime environment	React, Express, Node.js
2.	Security Implementations	Protects the user data and controls to the property listings.	bcrypt, JSON Web Tokens (JWT)
3.	Scalable Architecture	Allows the application to handle growing user base and data volume	MongoDB, RESTful API, Node.js
4.	Availability	Relies on a single instance of the application for serving requests	Node.js
5.	Performance	Optimizes performance with Mongoose for efficient database interactions and application-level caching	Mongoose, MongoDB, Node.js, Express