**web template system**

**Overall Architecture**

* (Node.js/Express): Handles template generation, data storage, and website deployment
* Pre-designed HTML templates (template1, template2, template3)
* DATABASE : Stores hotel information, room details, and website configurations

**Template Management**

* Copies the template files to a dedicated folder for that hotel
* Injects the hotel's specific data (name, rooms, images, etc.)
* Generates a complete, customized website

**Data Storage**(Hotel data is stored in a database with these main tables)

* **Webtemplatedata :** Stores website configuration for each hotel/template combination
* **operation\_property**: Stores basic hotel information
* **operation\_rooms, operation\_roomreclass**: Store room information
* **operation\_hoteloffers**: Stores special offers

**Image Management**

* Images are stored in dedicated directories for each hotel
* Images can be displayed in galleries, carousels, and room listings
* A reference to each image is stored in the database

**Website Deployment**

* Builds the website by filling template placeholders with actual data
* Sets up an Nginx server configuration for the hotel's domain
* Configures SSL certificates using Certbot
* Makes the website publicly accessible

**Flow**

**1. Hotel admin saves site details (title, email, etc.)**

**2. Admin uploads images for the website**

**3. Admin clicks "Build Template"**

**4. System generates all HTML pages with the hotel's data**

**5. System configures the web server**

**6. Website becomes publicly accessible at the hotel's domain**