ARCHICRAFT ENGINEERING COMPANY

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Under supervision

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Ch1

Introduction:

Imagine a world where your every need is anticipated and met. A world where your home is not just a
place to live, but a sanctuary of luxury and security. This is the vision we strive to achieve here at
ArchiCraft Engineering, an engineering company specializing in the construction and service of
exquisite homes and palaces within secure compounds.

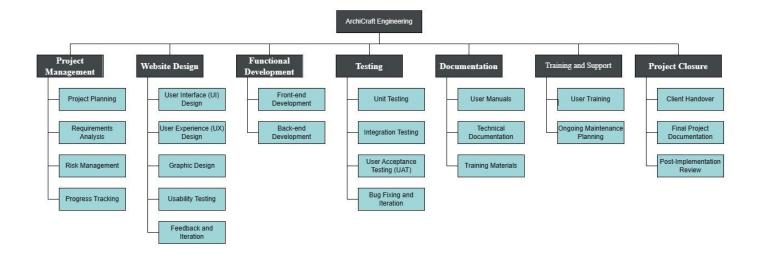
Problem Definition:

- ➤ Difficulty in finding a single company that can handle all aspects of building and servicing luxurious homes and palaces within secure compounds.
- Lack of transparency and communication during the design and construction process.
- Concerns about quality of materials and workmanship.
- Unease regarding the integration of complex technology into the home environment.
- Uncertainty about security measures and protocols within the compound.

System Objectives:

- > To become the leading provider of luxury building and palace services within secure compounds, exceeding client expectations and creating lasting value.
- Design and build exquisite homes and palaces that are tailored to the unique needs and preferences of each client.
- Provide a comprehensive range of services, from initial consultation to post-construction maintenance.
- Streamline the design and construction process for efficiency and timely completion.
- Ensure the highest standards of quality in materials, workmanship, and design.
- ➤ Integrate cutting-edge technology seamlessly into the home environment for convenience and security.
- > Create a secure and private compound environment with effective access control and surveillance.
- Build a strong brand reputation for excellence, professionalism, and reliability.
- Maintain competitive pricing while upholding high-quality standards and innovative practices.

WBS:



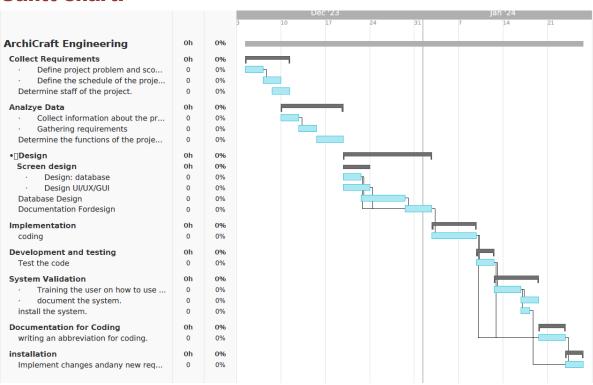
Risk Management:

Risk Description	Probability	Impact	Strategy
Cost	Low	High	Included in project plan, subject to amendment as new details regarding project scope are revealed
Time	Low	High	We must calculate well time we will spend in each task.
Team Size	Low	High	We must find an extra employees with an experience and train them well.
Software bugs	Low	Low	perform an impact analysis and decide what we should do after discussing it with the management and the client
Narrow Knowledge Level of Users	Low	High	train them well and give them all knowledge they will need and provide them with all possible resources.

Project plan:

Phase	Activity
1.Collect Requirements	 Define project problem and scope. Define the schedule of the project. Determine staff of the project.
2-Analzye Data	 Gathering requirements Collect information about the project. Determine the functions of the project.
3.Screen design	Design: databaseDesign UI/UX/GUI
4- Database Design	Information about the project
5.Documentation For design	writing an abbreviation for the design.
6.Implementation	Implement the code of the project.
7.Development and testing	Test the code
8.System Validation	 Training the user on how to use the project. document the system. install the system.
9.Documentation for Coding	writing an abbreviation for coding.
10.installation	Implement changes and any new requirements.

Gantt chart:



How to achieve security:

Security Measure	Description	Estimated Implementation Cost	Estimated Time to Implement
Strong password requirements	Enforce minimum password length, complexity, and regular password changes	Low	Low
Multi-factor authentication (MFA)	Implement MFA using SMS, email, or authenticator apps	Medium	Medium
Role-based access control (RBAC)	Assign user roles with specific permissions to access sensitive data and functionalities	Medium	High
Software updates	Regularly update website software and plugins to address vulnerabilities	Low	Low
Data encryption	Encrypt sensitive data, both in transit and at rest, using AES or RSA encryption	Medium	Medium
Security audits and penetration testing	Conduct regular security audits and penetration testing to identify and address potential weaknesses	High	High

How to achieve safety:

- 1. Secure user accounts: Implement strong authentication and authorization mechanisms, including strong passwords, multi-factor authentication (MFA), and role-based access control (RBAC).
- 2. Protect against data breaches and cyberattacks: Regularly update website software and plugins, encrypt sensitive data, and conduct security audits and penetration testing to identify and address potential vulnerabilities.
- 3. Ensure compliance with data privacy regulations: Implement a comprehensive privacy policy, obtain user consent for data collection and usage practices, and comply with applicable data privacy regulations.
- 4. Secure payment processing: Utilize a reputable payment gateway that adheres to industry security standards, avoid storing sensitive payment information on the website's servers, and implement secure communication protocols for payment transactions.
- 5. Educate users about online safety: Provide clear and concise instructions on creating strong passwords, identifying phishing scams, and avoiding social engineering attacks. Encourage users to report any suspicious activity or security concerns.

<u>Ch2</u>

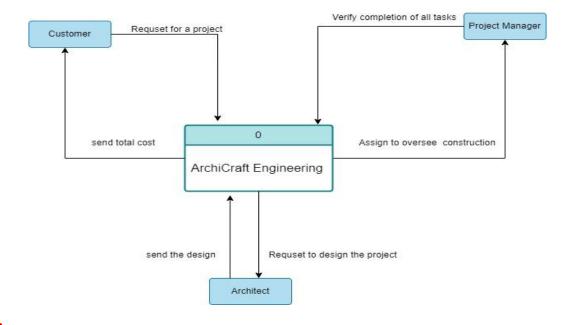
Non-Functional Requirements:

Performance	The website should be fast, responsive, and able to handle a high volume of users without performance bottlenecks
Security	The website should implement robust security measures to protect user data, including data encryption, secure authentication, and vulnerability management.
Accessibility	The website should be accessible to users with disabilities, adhering to WCAG guidelines and providing alternative text for images, transcripts for videos, and keyboard navigation.
Search Engine Optimization (SEO)	The website should be optimized for search engines to improve its visibility and attract organic traffic.
Cross-Browser Compatibility	The website should be compatible with all major web browsers, including Chrome, Firefox, Safari, and Edge.

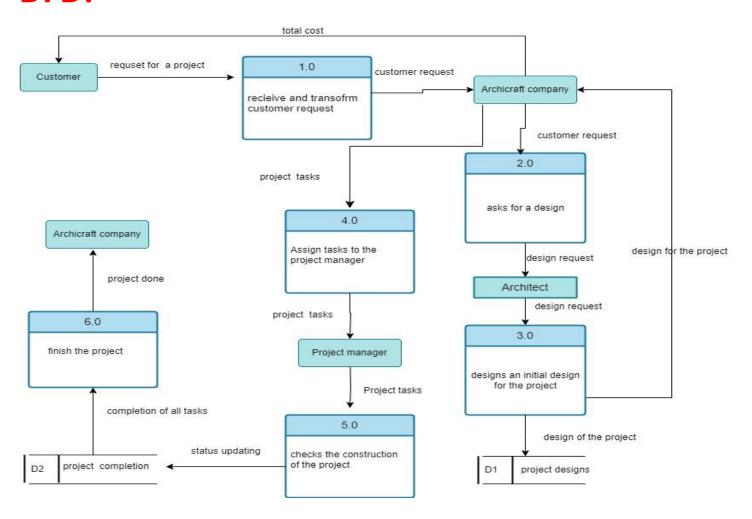
Functional Requirements:

User Registration and Authentication	Users should be able to create accounts and log in securely. Different access levels for architects, clients, and administrators.
Project Management	Ability to create, edit, and delete design projects. Assigning architects to specific projects.
Client Dashboard	Overview of projects. Access to project files and designs.
Mobile Responsiveness	Ensuring the website is accessible and functional on various devices.
Feedback and Review System	Collecting feedback from clients and architects.

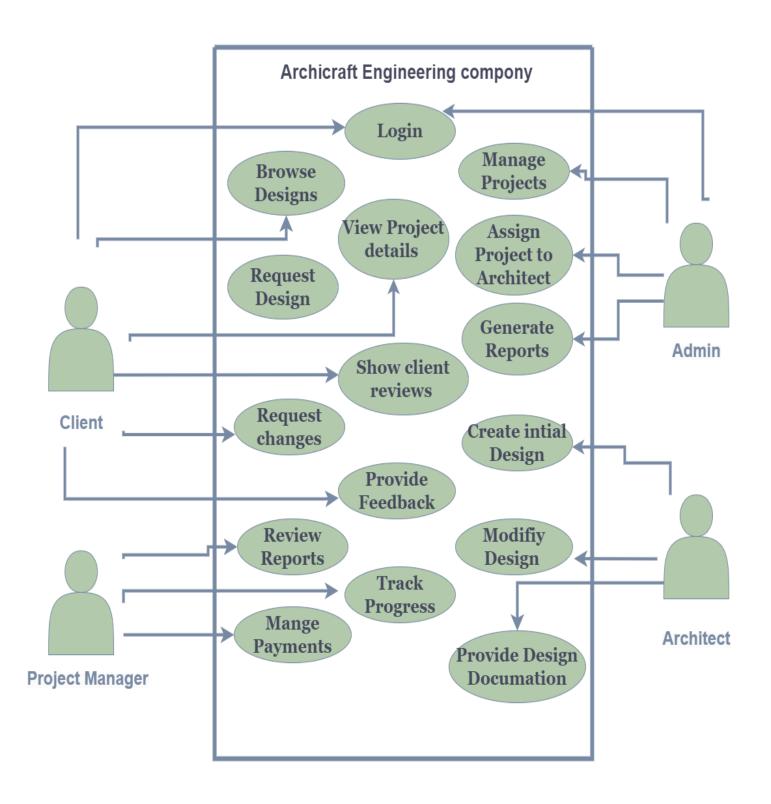
Context Diagram:



DFD:

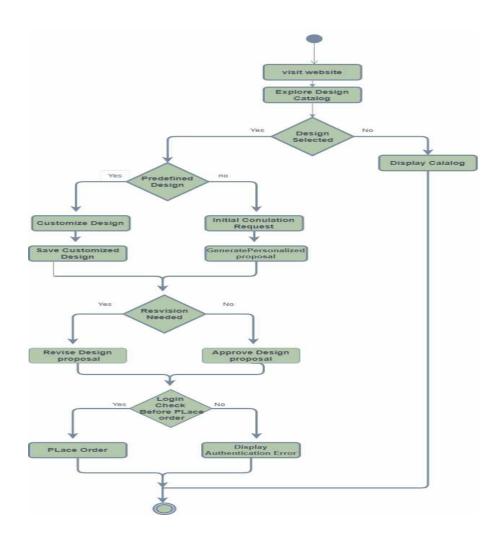


Use case Diagram:

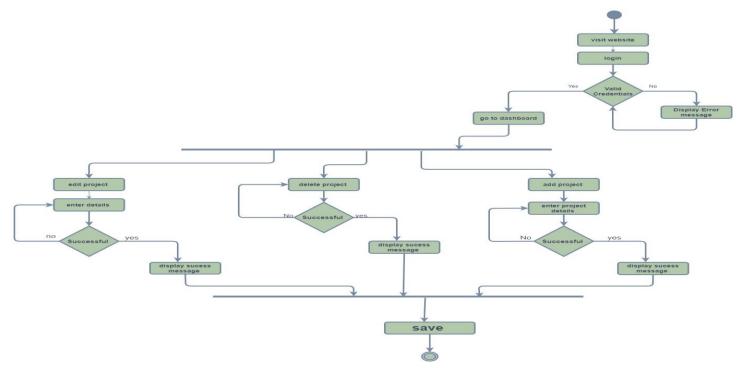


Activity Diagram:

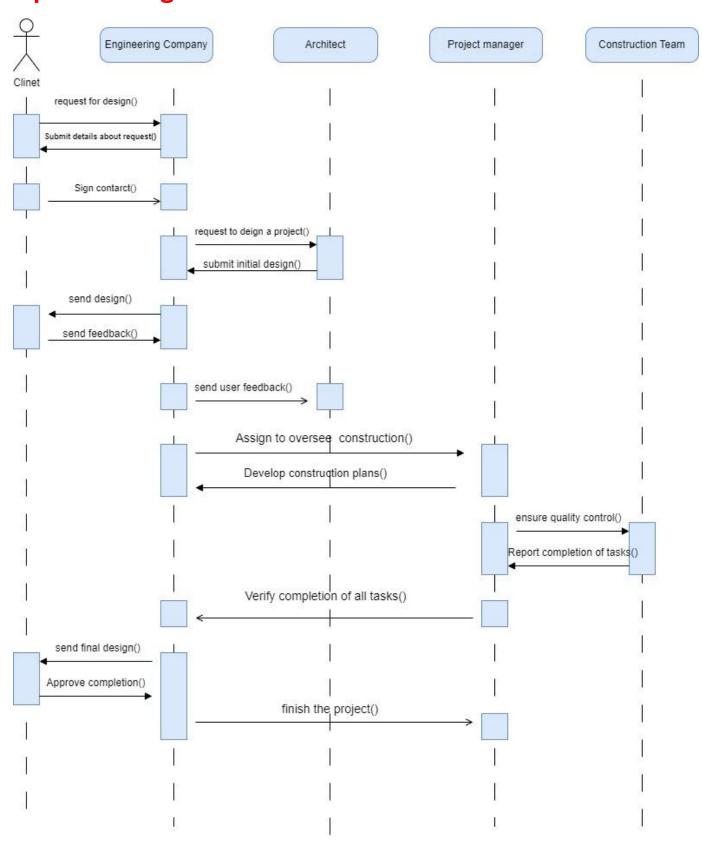
** client**



Admin

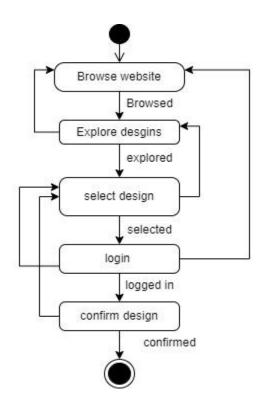


Sequence Diagram:

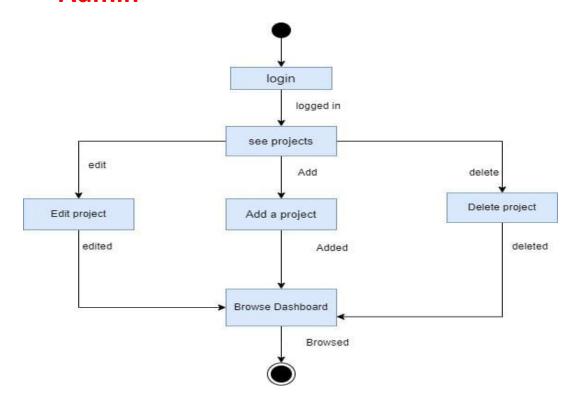


State Diagram:

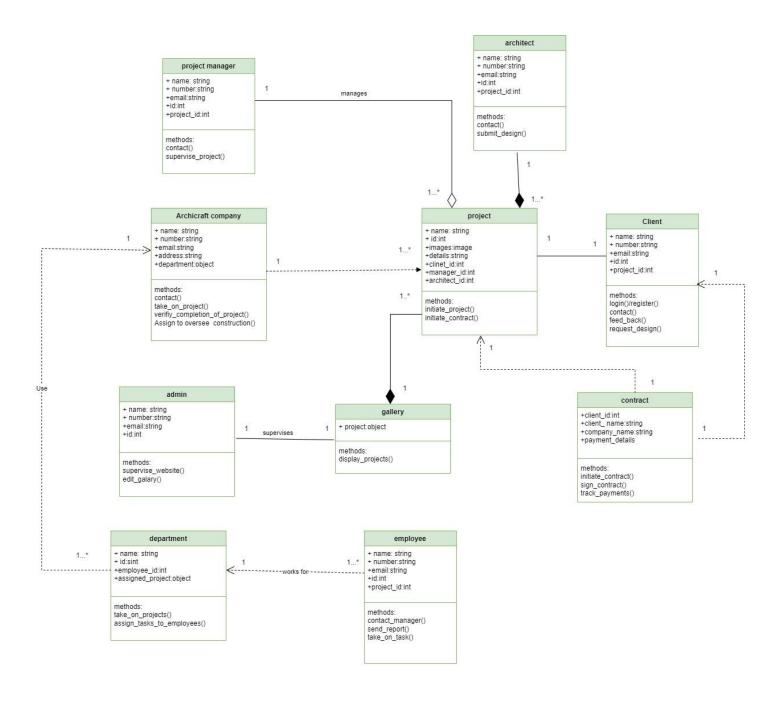
** client **



** Admin**



Class Diagram:



GUI:



Why You Should Trust Us?

Learn More About Us!

Tempor Erat Elitr Rebum At Clita. Diam Dolor Diam Ipsum Sit. Aliqu Diam Amet Diam Et Eos. Clita Erat Ipsum Et Lorem Et Sit, Sed Stet Lorem Sit Clita Duo Justo Magna Dolore Erat Amet



Design Approach

Erat Ipsum Justo Amet Duo Et Elitr Dolor, Est Duo Duo Eos Lorem Sed Diam Stet Diam Sed Stet.



Innovative Solutions

Erat Ipsum Justo Amet Duo Et Elitr Dolor, Est Duo Duo Eos Lorem Sed Diam Stet Diam Sed Stet.



Project Management

Erat Ipsum Justo Amet Duo Et Elitr Dolor, Est Duo Duo Eos Lorem Sed Diam Stet Diam Sed Stet.









