A functional requirement template for a customer registration application should outline the specific features and functionalities that the application must have to meet its intended purpose. Here's a template you can use as a starting point:

**Functional Requirements for Customer Registration Application**

**1. User Registration**

* **FR-1:** Users should be able to create an account by providing their:
  + Full Name
  + Email Address
  + Password (with specific requirements like minimum length, special characters, etc.)
  + Contact Number (optional)
* **FR-2:** The application must validate email addresses to ensure they are in a valid format and not already associated with an existing account.
* **FR-3:** Users should receive a confirmation email for account activation upon successful registration.

**2. User Authentication**

* **FR-4:** Registered users must be able to log in securely using their email and password.
* **FR-5:** Password reset functionality should be available, allowing users to reset their passwords via a secure process (e.g., email verification or security questions).

**3. Profile Management**

* **FR-6:** Users should be able to edit their profile information, including their full name, contact number, and profile picture (if applicable).
* **FR-7:** Users should have the option to delete their account, with appropriate warnings and confirmation steps.

**4. Security and Privacy**

* **FR-8:** The application should securely store user passwords using industry-standard encryption techniques.
* **FR-9:** User data, including personal information, must be protected and comply with relevant data privacy regulations (e.g., GDPR, CCPA).

**5. User Roles**

* **FR-10:** The application should support different user roles, such as regular customers and administrators, with distinct permissions and access levels.

**6. User Notifications**

* **FR-11:** Users should receive email notifications for critical account actions (e.g., account creation, password changes).

**7. Error Handling**

* **FR-12:** The application must provide clear and user-friendly error messages for invalid inputs, failed actions, and technical issues.

**8. Accessibility**

* **FR-13:** The application should adhere to accessibility standards (e.g., WCAG) to ensure it is usable by people with disabilities.

**9. Cross-Platform Compatibility**

* **FR-14:** The application should be accessible and function correctly on various devices and web browsers.

**10. Performance**

* **FR-15:** The application should load quickly and respond to user interactions promptly to provide a smooth user experience.

**11. Reporting**

* **FR-16:** Administrators should have access to reporting features for user account statistics and activity logs.

**12. Localization**

* **FR-17:** The application should support multiple languages or regions if applicable.

This template outlines key functional requirements for a customer registration application. You can customize it further based on your specific project's needs and add additional details as necessary. Additionally, consider creating non-functional requirements (e.g., performance, security, scalability) and use cases to provide

Functional requirements describe the specific features and functionalities of a software application. Here's a template for functional requirements for a customer registration application:

**1. User Registration:**

* The system shall allow users to register for an account.
* Users shall provide the following information during registration:
  + Full Name
  + Email Address
  + Password (with validation rules)
  + Contact Number
  + Address (including street, city, state, and ZIP code)

**2. User Authentication:**

* Registered users shall be able to log in using their email and password.
* The system shall implement password hashing and salting for security.

**3. User Profile Management:**

* Users shall be able to edit their profile information (except email) after logging in.
* Users shall be able to reset their password via email if they forget it.
* Users shall be able to delete their account, which will require confirmation.

**4. Email Verification:**

* After registration, users shall receive a verification email with a unique link to confirm their email address.
* Users must click on the verification link to activate their account.

**5. Account Restrictions:**

* The system shall prevent multiple accounts with the same email address.
* The system shall enforce password complexity rules (e.g., minimum length, special characters, etc.).
* Users shall be temporarily locked out after a specified number of unsuccessful login attempts.

**6. User Roles:**

* The system shall support different user roles (e.g., customer, admin).
* Customers shall have limited access compared to administrators.

**7. Error Handling:**

* The system shall provide clear error messages for registration and login failures.
* It should distinguish between invalid email/password and account not yet verified.

**8. Security:**

* User passwords shall be stored securely using strong encryption and hashing techniques.
* Sessions shall be secure to prevent session hijacking.
* Implement CAPTCHA or other anti-bot mechanisms to prevent automated registration.

**9. Logging:**

* The system shall log all registration and login activities for security and audit purposes.
* Logs should include date, time, IP address, and the action taken.

**10. Accessibility:**

* The registration and login interfaces shall be designed to be accessible to users with disabilities in compliance with WCAG guidelines.

**11. Usability:**

* The registration and login processes should be intuitive and user-friendly.
* Provide clear instructions and feedback to users throughout the process.

**12. Localization:**

* The system shall support multiple languages for registration and error messages.

**13. Integration:**

* The registration application shall integrate with the existing user database or user management system, if applicable.

**14. Testing:**

* Specify test cases for registration and login functionality to ensure proper implementation.

**15. Performance:**

* The system should be capable of handling a large number of registration requests simultaneously without performance degradation.

**16. Backup and Recovery:**

* Implement backup and recovery mechanisms to ensure user data is not lost in case of system failures.

**17. Compliance:**

* Ensure that the registration process complies with relevant data protection and privacy regulations (e.g., GDPR, HIPAA).

These functional requirements provide a detailed outline of what the customer registration application should do. It's important to review and refine these requirements as needed during the development process to ensure that the final application meets the desired objectives.