

### **Usability Requirements:**

- The user interface should be intuitive and easy to navigate to ensure a positive user experience.
- The software should support multiple languages to cater to a diverse user base.
- The application should be accessible to users with disabilities, complying with accessibility standards (e.g., WCAG).

### **Performance Requirements:**

- The system should provide a responsive user interface, with pages loading within 2 seconds under typical user loads.
- The system should handle a concurrent user load of at least 1000 users without significant performance degradation.
- The backend server should be capable of processing split requests and expenses in real-time, ensuring low latency.

### **Space Requirements:**

- The software should efficiently manage and store user data, ensuring that the database storage requirements are optimized.
- The system should allow for data backup and archiving to prevent data loss.

### **Security Requirements:**

- User data, including personal and financial information, should be encrypted both in transit and at rest.
- Access control and authentication mechanisms should be in place to prevent unauthorized access to user accounts.
- The software should have mechanisms to detect and respond to security threats, such as intrusion detection and prevention systems.
- Regular security audits and updates should be performed to address vulnerabilities and compliance with security standards.

### **Environmental Requirements:**

- The software should be designed to work in various network environments, including mobile data and Wi-Fi.
- It should be compatible with a wide range of devices, including smartphones, tablets, and computers.

### **Operational Requirements:**

- The software should be highly available, with a target uptime of 99.9%.
- It should have a monitoring system in place to detect and report service outages or performance issues in real-time.
- The system should be easy to maintain and update without significant downtime.

### **Development Requirements:**

- The software development process should adhere to coding and testing standards.
- Version control and collaborative development tools should be in place.
- Adequate documentation for the software architecture and codebase should be maintained.
- The development team should follow secure coding practices to mitigate vulnerabilities.

**Regulatory Requirements:**

- The software should adhere to data privacy regulations, such as GDPR or HIPAA, depending on the user data handled.
- Compliance with financial regulations and payment processing standards should be maintained if financial transactions are involved.

**Ethical Requirements:**

- The software should prioritize user privacy and data protection, and user consent should be obtained for any data processing.
- The system should discourage unethical financial practices or encourage fair expense sharing.

**Accounting Requirements:**

- If the software handles financial transactions, it should provide accurate and auditable financial records.
- Users should be able to view their transaction history, including payments and expenses.

**Safety/Security Requirements:**

- The system should implement security measures to protect against fraudulent activities.
- Safety measures should be in place to prevent accidental financial transactions or data loss.