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# WEforUS: A Community Platform

### Design Document

### Women Engineers January 2025

### **1. Introduction**

The WEforUS website/platform is intended to function exclusively for the WE Cohort (students and alumni), associated faculty, mentors, and other staff.

### **2. Project Overview**

* Background: Context and background of the project.
* Objectives: High-level goals of the project.
* Scope: What the project will cover (in-scope) and what it will not cover (out-of-scope).

### **3. Functional Requirements**

| Requirement ID | Title | Description | Priority | Status |
| --- | --- | --- | --- | --- |
| FR-001 | Authorization | Authorisation associated with the WE email.  Using the WE email as the username and will send a default password with password change option to the registered email)   * Regular email-password * Google firebase authentication (stretch) | High |  |
| FR-002 | **Announcement page** | Announcement page - public or private viewing access | High |  |
| FR-003 | Notifications | Email notifications based on user preferences   * whatsapp/text option (stretch) | Medium |  |
| FR-00x | Personal Profile | For every member  individual pages with professional history (linked to linkedin profile)   * Allow direct chat via ‘Reach out’ * Define contact preferences   Pull from Linkedin; (stretch) manually edit | High |  |
| FR-004 | ***Hall of Fame*** | • A photo gallery of alumni achievements  • Promotions, awards, recognitions provided as text | High |  |
| FR-005 | Who’s Who | • Cohort-wise photo gallery of all scholars  • Links to FR-00x (individual pages)  • Indexed and searchable by location, role, organisation  topmate style? | High |  |
| FR-006 | Reaching Out | • Enable anyone to message anyone else  • broadcast (announcements), multicast (group) and private (chat) messaging  • thread-based interaction (reddit-style interaction, with searchable tags? or more of discord-style?) |  |  |
| FR-007 | Meet-Up | • organise social groups events location-wise  • member-specific visit  availability calendars for meets (can this be integrated within the ’Reaching Out’ use-  case?)  Calendar- event with discussions |  |  |
| FR-008 | Job Board | • Post job openings and possible referrals  • can be extended for educational opportunities?  • stretch goal - incorporate publically available posts pulled from careers pages |  |  |
| FR-009 | PG Finder | • enable PGs to be shared with reliable reviews from alumni  • should allow pictures, rating system on various aspects - cost, safety, distance, food,etc | low |  |

### **4. Non-Functional Requirements**

* Performance: Speed, latency, or throughput requirements.
* Security: Authentication, authorization, and data protection measures.
* Usability: Accessibility, user-friendliness, and localization.
* Scalability: Ability to handle growth in users or data.
* Availability: Uptime, disaster recovery.
* Quality:

| Requirement ID | Category | Description |
| --- | --- | --- |
| NFR-001 | Performance | System should respond within 1 second for 90% of requests. |
| NFR-002 | Quality | High Quality Graphics |
| NFR-003 | Security | Strong Authorization Policy |

### **5. System Models**

* Diagrams: Include UML diagrams, flowcharts, or data models to illustrate the system.
  + Use Case Diagrams
  + Sequence Diagrams
  + Entity-Relationship Diagrams

### **6. Assumptions**

* Assumptions: Any conditions assumed to be true.

| Assumption ID | Description |
| --- | --- |
| A-001 |  |

### **7. Constraints**

* Constraints: Limitations that affect the solution (e.g., budget, technology).

| Assumption ID | Description |
| --- | --- |
| C-001 | Aiming to finish major platform development by March |
|  |  |
|  |  |

### **8. Risks and Mitigations**

* Identify risks related to requirements and propose mitigations.

| Risk ID | Description | Impact | Probability | Mitigation Strategy |
| --- | --- | --- | --- | --- |
| R-001 | Inadequate user testing | High | Medium | Schedule additional test cycles. |

### **9. References**

#### 9.1 Phoenix References

* Phoenix Learning Repo: <https://github.com/Tara-1022/Phoenix_Learning_Repository>
* Phoenix Documentation: https://hexdocs.pm/phoenix/overview.html

#### 9.2 Code Repository

* Code Repo: <https://github.com/Tara-1022/WE4US>
* Tickets:

#### 9.3 Contacts

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