# Project Design Phase-II
## Solution Requirements (Functional & Non-functional)

| Date | 28 june 2025 |
|---|---|
| Team ID | LTVIP2025TMID51398 |
| Project Name | Measuring the pulse of prosperity :- An index of economic freedom analysis |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|---|---|---|
| FR-1 | User Registration | Registration through Form<br>Registration through Gmail<br>Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | Data upload | Upload raw CSV,API, input etc., |
| FR-4 | Index analysis & Visualization | Charts, graphs, country comparison |
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**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | Intuitive UI for users to access country/economic data easily |
| NFR-2 | **Security** | Access control, authentication |
| NFR-3 | **Reliability** | Backup systems, Consistent API uptime |
| NFR-4 | **Performance** | 100+ concurrent requests, use of cache/CDNs |
| NFR-5 | **Availability** | 99.9% uptime, load balancer, server failover |
| NFR-6 | **Scalability** | Micro service architecture, auto-scaling using kunernetes. |