**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 20 October 2023 |
| Team ID | F2EAD90353DC960A00D44BB6356F1E94 |
| Project Name | IRevolution : A Data-Driven Exploration of Apple’s IPhone Impact in India |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | | | | | | | **Sub Requirement (Story / Sub-Task)** | | | | | | | | | |
| FR-1 |  | **Data Collection** | |  | | | |  | As a Data Analyst, I need a data collection system that allows me | | | | | | | | |
| to input the prices of different models of iphones | | | | | | | | |
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| FR-2 |  | **Content Analysis** | | |  | | |  | As a Content Analyst, I require a content analysis tool that can | | | | | | | | |
| process video metadata and transcripts, identify keywords, and | | | | | | | | |
|  | | |
| extract insights about content trends and engagement | | | | | | | | |
| strategies used by top YouTube channels. The tool should | | | | | | | | |
| provide data visualizations and allow for detailed content | | | | | | | | |
| examination. | |  | | | | | | |
| FR-3 |  | **Audience Survey** | | |  | | |  | As an Audience Researcher, I need an online survey platform | | | | | | |  | |
| that enables the creation and distribution of surveys to viewers | | | | | | | |  |
|  | | |
| of top i-phone models. The platform should collect and store | | | | | | | | |
| responses securely and allow for real-time tracking of survey | | | | | | |  | |
| completion rates. | | |  | | | |
|  | | |
| FR-4 |  | **Reporting** |  | | | | |  | As a Project Manager, I want a reporting system that compiles | | | | | | | |  |
| the findings from data collection, content analysis, and audience surveys. The system should generate clear and visually appealing | | | | | | | | |
|  |
| reports, including charts, graphs, and actionable insights, which | | | | | | | | |
| can be easily shared with the team and stakeholders. | | | | |  | | | |
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| FR-5 |  | **Automated Data Updates** | | | | |  | The data collection system should have an automated update feature, refreshing data from users at regular intervals (e.g., weekly or monthly) to maintain the dataset's accuracy and relevance | | | | | | | | | |
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| FR-6 |  | **User Collaboration** | | | |  | |  | Team members should be able to collaborate within the | | | | | | | |  |
| project, with features such as the ability to share and | | | | | |  | |
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| annotate content analysis reports, conduct joint surveys, | | | | | | | |
| and provide feedback within the system. | | | |  | | | |
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**Non-functional Requirements:**

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

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| **FR No.** | **Non-Functional Requirement** | | | | | **Description** | | | | | | | | | | | |
| NFR-1 |  | **Data Security** | | |  |  | To ensure the safety of collected data, we must | | | | | |  | | | | |
| implement strong data encryption and access control | | | | | | | | | | |
|  | | |
| measures, preventing unauthorized access or data | | | | | | | |  | | |
| breaches, and ensuring the privacy of iphone users | | | | | |  | |
| and survey responses. | | | |  | |
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| NFR-2 |  | **Performance** | | |  |  | The system should be designed to handle a large amount of data efficiently and should be responsive, ensuring that data | | | | | | | | | | |
|  | | |
| analysis, content examination, and survey distribution do not | | | | | | | | | | |
| significantly impact the project's timeline. It should be able | | | | | | | | | |  |
| to handle concurrent user requests without significant | | | | | | |  | | |
| performance degradation. | | |  | | | |
| NFR-3 |  | **Scalability** |  | | |  | The system should be designed to scale with project | | | | | | | | | |  |
| needs. It must accommodate an increasing number of | | | | | | | | | | |
|  |
| users, models, and data while maintaining | | | | |  | | | | | |
| performance, regardless of the growth in data volume | | | | | | | | | | |
| and users. |  | | | | | | | | | |
| NFR-4 |  | **Compliance** | |  | |  | The project must adhere to relevant data privacy | | | | | | |  | | | |
| regulations, such as GDPR or CCPA, ensuring that data | | | | | | | | | | |
|  | |
| collection and storage practices are compliant with | | | | | | | | |  | |
| legal requirements. | |  | | | | | | |
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| NFR-5 | **Availability** | | | | | The system should comply with privacy and security regulations to protect patient data. It should implement appropriate security measures, such as encryption, access controls, and audit logs, to safeguard sensitive healthcare information | | | | | | | | | | | |
| NFR-6 |  | **Accessibility** | |  | |  | The platforms must be accessible to users with | | | | | |  | | | | |
|  | | disabilities. This includes providing alternative text for | | | | | | | | | | |
| images, keyboard navigation, and other features to | | | | | | | | |  | |
| ensure the system's usability for all team members | | | | | | | | . |
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