**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 22 November 2023 |
| Team ID | Team-591664 |
| Project Name | Project – Image Caption Generation |
| Maximum Marks | 4 Marks |

**Data flow diagram:**



Level 0



Level 1



Level 2

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| --- | --- | --- | --- | --- | --- |
| **User Type** | **Functional**  **requirement** | **User story number** | **User story/ Task** | **Acceptance**  **criteria** | **Priority** |
| Individual Users | Quick Processing | USN-1 | As an Individual User, I want to customize the style, tone, or length of captions according to my preferences and the context of the image. | The application supports batch processing, enabling content creators to caption multiple images simultaneously, saving time and effort. | High |
| Content Creators | Advanced Customization | USN-2 | As a Creator, I am into More extensive customization options, allowing for creative and artistic captions. This might include font styles, colours, and placement of captions on the image. . | Content creators have access to extensive customization features, allowing them to tailor captions creatively, including font styles, colors, and positioning. | High |
| Businesses and Organizations | Analytics and Insights | USN-3 | As a Business man, I want Tools to track the usage patterns, user engagement, and effectiveness of captioned images for marketing and promotional campaigns. | User data should be securely encrypted and comply with data protection standards. | Low |
| Application Developers | Cost-Effective Solutions | USN-4 | As a application Developer, the Pricing models that cater to different scales of applications, ensuring affordability for developers and startups. | Should have secure access to the requested anonymized data. | Low |
| Researchers and Academics | Data Analysis Tools | USN-6 | As a Researcher, I want tools for analyzing input data, including image content analysis, statistical analysis of captions, and data visualization features to gain insights into dataset characteristics. | Access to an active community of researchers and experts, fostering collaboration, knowledge sharing, and problem-solving within the research community. | Medium |