# Project Design Phase-I

## Proposed Solution Template

| Date | 9 November 2023 |
|---|---|
| Team ID | Team-612739 |
| Project Name | Image caption generation |
| Maximum Marks | 4 Marks |

**Proposed Solution Template:**

| S.NO | Parameter | Description |
|---|---|---|
| 1 | Problem Statement (Problem to be solved) | In today's digital era, there's a pressing need for tools that translate images into contextual textual descriptions, serving everyone from the visually impaired to content creators. |
| 2 | Idea / Solution description | A deep learning-based system combining CNNs and RNNs/Transformers to generate accurate and contextually relevant image captions. |
| 3 | Novelty / Uniqueness | Adaptive learning from user feedback, offering multiple captioning styles (formal to poetic). |
| 4 | Social Impact / Customer Satisfaction | Enhanced web accessibility, streamlined content creation, and educational applications. |

| 5 | Business Model (Revenue Model) | Freemium services with premium features, API licensing for businesses, and an ad-supported platform. |
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| 6 | Scalability of the Solution | Infrastructure ready for user growth, potential extension to video captioning, and adaptation for specialized fields like medical imaging |