

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

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|---------------|---------------------------------|
| Date | 22 November 2023 |
| Team ID | Team-593126 |
| Project Name | Lip Reading using Deep Learning |
| Maximum Marks | 8 Marks |

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

| Sprint | Functional Requirement (Epic) | User Story Number | User Story / Task | Story Points | Priority |
|----------|-------------------------------|-------------------|--|--------------|----------|
| Sprint-1 | Project setup | USN-1 | Set up the development environment with the required tools and frameworks to start the lip reading project. | 2 | High |
| Sprint-1 | Data Collection | USN-2 | Gather a diverse dataset of videos containing people speaking with various lip movements for training the lip-reading model. | 2 | High |
| Sprint-1 | Data Preprocessing | USN-3 | Preprocess the collected dataset by extracting frames and converting the data into a suitable format for training. | 3 | High |
| Sprint-2 | Model Development | USN-4 | Explore and evaluate different deep learning architectures (e.g., RNNs, CNNs) to select the most suitable model for lip reading. | 3 | High |
| Sprint-2 | Development | USN-5 | Train the selected deep learning model using the pre-processed dataset and monitor its performance on the validation set. | 4 | High |
| Sprint-3 | Integration | USN-6 | Deploy the trained lip-reading model and integrate the model into a user-friendly web | 4 | Medium |

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|----------|-------------------------------|-------|--|---|--------|
| | | | interface for users to use and receive lipreading results. | | |
| Sprint-4 | Testing and quality Assurance | USN-7 | conduct thorough testing of the model and web interface to identify and report any issues or bugs. | 2 | Medium |

Project Tracker, Velocity & Burndown Chart: (4 Marks)

| Sprint | Total Story Points | Duration | Sprint Start Date | Sprint End Date (Planned) | Story Points Completed (as on Planned End Date) | Sprint Release Date (Actual) |
|----------|--------------------|----------|-------------------|---------------------------|---|------------------------------|
| Sprint-1 | 7 | 7 Days | 1 Nov 2023 | 7 Nov 2023 | 7 | 6 Oct 2023 |
| Sprint-2 | 7 | 7 Days | 8 Oct 2023 | 14 Nov 2023 | 7 | 14 Oct 2023 |
| Sprint-3 | 4 | 3 Days | 15 Nov 2023 | 18 Nov 2023 | 4 | 18 Nov 2023 |
| Sprint-4 | 2 | 3 Days | 19 Nov 2023 | 21 Nov 2023 | 2 | 21 Nov 2023 |

Velocity:

$$AV = Duration/Velocity$$

$$AV = 21/20 = 1.05$$

Burnout Chart:

