# Sprint Planning - Sprint 3

## Project: Real-Time Facial Recognition in Exam Proctoring Application

## Sprint Goal

Develop the backend authentication system using Django, implementing role-based login differentiation (lecturer vs. student), exam management, proctoring session tracking, automated grading, and result visualization.

## Backend Components & Tasks

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| --- | --- | --- | --- | --- |
| Key | Summary | Description | Acceptance Criteria | Story Points |
| TASK-015 | User Authentication & Role Differentiation | Implement Django authentication for students & lecturers. | Students and lecturers can log in with appropriate dashboards. | 6 |
| TASK-016 | Student Dashboard Backend | Serve completed and pending exams per student. | Dashboard displays correct exam data for each student. | 5 |
| TASK-017 | Lecturer Dashboard Backend | Enable exam initiation and notifications. | Lecturers can start exams and send notifications. | 6 |
| TASK-018 | Email Notification System | Notify students when an exam starts. | Students receive email notifications for exams. | 4 |
| TASK-019 | Exam Access & Data Fetching | Allow students to access exams from dashboard. | Students can only see relevant exam details. | 6 |
| TASK-020 | Exam Categorization | Differentiate CATs and final unit exams. | System classifies exams correctly. | 5 |
| TASK-021 | Grading System & Score Normalization | Aggregate scores to 100% metric grading. | Unit exam results are scaled appropriately. | 7 |
| TASK-022 | Exam Timer & Progress Tracking | Track and record student progress in exams. | Exam session tracks remaining time dynamically. | 6 |
| TASK-023 | Proctoring Event Logging | Log suspicious behaviors (mouse exits, looking aside). | System stores event logs per student. | 8 |
| TASK-024 | LLM-Based Grading System | Implement AI-assisted grading. | Lecturers can trigger automated grading and review. | 9 |
| TASK-025 | Results Visualization Backend | Enable lecturers to filter and analyze results. | Lecturers can view results by unit code. | 6 |

## Team Assignments

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| --- | --- | --- |
| Task | Task Owner | Collaborators |
| TASK-015 | Sai Sidharth Narkatpally | Rajini Shankar Ramachandran |
| TASK-016 | Suchith Reddy | Praharsha Reddy Beemidi |
| TASK-017 | Praharsha Reddy Beemidi | Suchith Reddy |
| TASK-018 | Rajini Shankar Ramachandran | Sai Sidharth Narkatpally |
| TASK-019 | Sai Sidharth Narkatpally | Rajini Shankar Ramachandran |
| TASK-020 | Suchith Reddy | Praharsha Reddy Beemidi |
| TASK-021 | Praharsha Reddy Beemidi | Suchith Reddy |
| TASK-022 | Sai Sidharth Narkatpally | Rajini Shankar Ramachandran |
| TASK-023 | Suchith Reddy | Rajini Shankar Ramachandran |
| TASK-024 | Rajini Shankar Ramachandran | Sai Sidharth Narkatpally |
| TASK-025 | Praharsha Reddy Beemidi | Suchith Reddy |

## Effort Distribution

|  |  |  |  |
| --- | --- | --- | --- |
| Team Member | Tasks Assigned | Story Points | Focus Area |
| Sai Sidharth Narkatpally | TASK-015, TASK-019, TASK-022 | 18 | Authentication & Exam Tracking |
| Rajini Shankar Ramachandran | TASK-015, TASK-018, TASK-024, TASK-023 | 20 | Notifications & AI Grading |
| Suchith Reddy | TASK-016, TASK-020, TASK-023 | 19 | Exam Management & Logging |
| Praharsha Reddy Beemidi | TASK-017, TASK-021, TASK-025 | 18 | Results & Visualization |

## Sprint Focus

- Implement Django authentication with lecturer/student role differentiation.  
- Develop backend logic for dashboards and exam access.  
- Integrate email notifications for exam start alerts.  
- Implement a grading system with score normalization.  
- Track student activity with timers and proctoring event logs.  
- Allow lecturers to trigger LLM-based grading and visualize results.