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| **To-Do** | **Doing** | **Done** | **Challenges** |
| Finalize front-end CSS for uniformity (Akshitha) | Developing the front-end (HTML, CSS, JavaScript) for Home, About, Contact, and Admin pages (Akshitha, Harsh) | Preprocessing pipeline for text data using NLTK (Sonam) | Ensuring responsive design across devices (Akshitha) |
| Integration of AWS Backup feature (Harsh) | Flask backend integration with machine learning components (Sonam, Jay) | Machine learning model integration: Random Forest, TF-IDF Vectorizer, and Label Encoder (Jay) | Flask compatibility with pre-trained models (Jay) |
| Scalability testing for AWS EC2 (Sonam, Jay) | Real-time testing of prediction workflows (Harsh, Sonam) | AWS deployment: Virtual Private Cloud (VPC) and Elastic IP setup (Sonam) | Consistency in preprocessing steps between training and real-time data (Sonam) |
| Preparing end-to-end user workflows (Jay) | Prediction accuracy optimization and validation for multiple input scenarios (Jay) | AWS S3 integration for dataset and model file storage (Akshitha, Harsh) | Latency issues in real-time predictions (Jay) |
|  | Usability and functional testing for front-end and back-end integration (All Members) | Functional, usability, and edge-case testing (All Members) | Handling noisy and incomplete input data during predictions (Jay) |
|  | Deployment of a Flask-based web application on AWS EC2 (Jay) | Ensuring cost-effective use of AWS Elastic IP and backup plans (Harsh) |
| Real-time result display on Admin page with dynamic feedback (Akshitha) | Scalability challenges for high traffic load on AWS EC2 (Sonam) |
| Configuration of Disaster Recovery Plan on AWS Backup (Harsh) | Integrating Google Maps on Contact page (Harsh) |
| Enhancing the UI/UX for team and mission details (Akshitha) | Ensuring consistent and accurate predictions for edge-case scenarios (Jay) |

**KANBAN BOARD**

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