Crowdsourced Disaster Relief Platform Individual Contributions & Project Management

Course: CS 3354 Spring 2025 Group Number: 2 Group Members: Casey Nguyen, Kevin Pulikkottil, Andy Jih, Sawyer

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4. Group Members & Roles

* **Casey Nguyen**: Project management, frontend and backend development, resource inventory management, social media integration.
* **Kevin Pulikkottil**: Backend infrastructure, AI matching implementation, database management, and integration with Flutter frontend.
* **Andy Jih**: Frontend web application development, real-time request posting, emergency broadcast alerts.
* **Sawyer**: Frontend development, user registration, donation system, database-related UI integration, documentation.

1. Detailed Individual Contributions

**Casey Nguyen:**

* Coordinated group meetings and maintained clear communication.
* Developed frontend features integrating backend APIs.
* Managed backend resource inventory and integrated social media components.

**Kevin Pulikkottil:**

* Designed and implemented backend API endpoints using FastAPI.
* Developed AI-powered volunteer matching system using KNN algorithm.
* Managed PostgreSQL database schema and data population scripts.
* Ensured backend compatibility with Flutter frontend through CORS configuration and clear API documentation.

**Andy Jih:**

* Developed frontend user interface with Flutter for real-time aid request posting.
* Implemented frontend features for emergency broadcast alerts.
* Assisted with documentation of frontend components.

**Sawyer:**

* Built user registration and profile management systems.
* Developed and integrated the donation management system.
* Collaborated closely with frontend and backend developers for database UI integration.
* Authored comprehensive user documentation and guidelines.

1. Project Management Information

* **Communication:** Regular meetings were conducted weekly using Discord and Zoom for clear and frequent communication.
* **Task Management:** Used GitHub for source code management and Jira/Trello for task tracking and project timelines.
* **Workflow:** Adopted agile methodologies with iterative cycles for continuous improvement and regular feedback incorporation.
* **Documentation:** Maintained comprehensive documentation accessible to all team members to ensure clarity on tasks and expectations.

These project management practices ensured smooth coordination, timely delivery, and effective collaboration across the team.