Phase 1: Requirement Refinement and Finalization (October 1 - October 15)

Main Objective:

To refine and finalize the project requirements ensuring clarity and completeness, setting a solid foundation for the subsequent phases of the project.

Sub-tasks:

1. Internal review of requirements:
   * Objective: To ensure that all gathered requirements are accurate, clear, and complete.
   * Details: The project team will review the initially collected requirements through team meetings and document reviews, ensuring they align with the project goals and stakeholder expectations.
   * Outcome: A refined set of requirements that are ready for stakeholder review.
2. Consultation with stakeholders for any additional requirements:
   * Objective: To gather any additional requirements or modifications from stakeholders.
   * Details: Organize stakeholder meetings or feedback sessions to uncover any additional requirements or clarifications, ensuring the project aligns with stakeholder expectations.
   * Outcome: An enriched set of requirements that reflect stakeholder needs and expectations.
3. Finalization of the requirement document:
   * Objective: To have a finalized document that clearly outlines the project requirements.
   * Details: Incorporate feedback from the internal review and stakeholder consultations into the requirement document, finalizing it for use in the subsequent phases of the project.
   * Outcome: A finalized Requirement Specification Document that will guide the design and development phases.

Phase 2: System Architecture and Detailed Design (October 16 - October 31)

Main Objective:

To develop a robust system architecture and detailed design that will guide the development phase.

Sub-tasks:

1. Selection of technologies and frameworks:
   * Objective: To choose the appropriate technologies and frameworks that will support the implementation of the project requirements.
   * Details: Assess various technologies and frameworks based on the project needs, considering factors such as scalability, maintainability, and compatibility.
   * Outcome: A defined tech stack that is suited for the project needs.
2. Detailed design of system modules:
   * Objective: To create a detailed design of each system module ensuring they fulfill the project requirements.
   * Details: Develop detailed design documents outlining how each module will function, interact with other modules, and how they will be implemented.
   * Outcome: A comprehensive design blueprint ready for the development phase.
3. Database design and API specification:
   * Objective: To design the database schema and specify the APIs that will facilitate communication between the frontend and backend.
   * Details: Design the database schema based on the data requirements, and specify the APIs detailing the endpoints, methods, and data formats.
   * Outcome: A ready-to-implement database design and a clear API specification to guide backend development.
4. UI/UX design:
   * Objective: To design user interfaces and user experiences that are intuitive and meet the usability requirements of the project.
   * Details: Create wireframes, mockups, and prototypes of the user interfaces, ensuring they align with the usability and accessibility standards.
   * Outcome: Ready-to-implement UI/UX designs for the frontend development.

Phase 3: Development (November 1 - November 30)

Main Objective:

To implement the system as per the design, ensuring all functionalities are correctly implemented and integrated.

Sub-tasks:

1. Backend development for handling user registration, application submission, etc.:
   * Objective: To develop the backend logic that will handle user interactions such as registration and application submission.
   * Details: Code the backend services and APIs that will process user registrations, application submissions, and other backend functionalities.
   * Outcome: A functioning backend ready for integration with the frontend.
2. Frontend development for user interfaces:
   * Objective: To implement the user interfaces as per the UI/UX design.
   * Details: Code the frontend components, ensuring they are intuitive, accessible, and align with the project's usability standards.
   * Outcome: A user-friendly frontend ready for integration with the backend.
3. Database setup and data modeling:
   * Objective: To set up the database and implement the data models as per the database design.
   * Details: Set up the database environment, implement the schema, and ensure that data integrity and security measures are in place.
   * Outcome: A well-structured database ready for data storage and retrieval.
4. Development of automated notification system:
   * Objective: To develop an automated notification system for keeping users informed about relevant updates.
   * Details: Implement the logic for sending automated notifications via email or in-app notifications based on specific triggers.
   * Outcome: An automated notification system that enhances user engagement and keeps them informed.
5. Integration of front-end with back-end services:
   * Objective: To integrate the frontend and backend components ensuring seamless communication between them.
   * Details: Establish the necessary connections between frontend and backend, ensuring data flows correctly and securely across the system.
   * Outcome: A fully integrated system ready for testing.

Phase 4: Testing and Quality Assurance (December 1 - December 5)

Main Objective:

To ensure that the system meets all the functional and non-functional requirements, is bug-free, and ready for deployment.

Sub-tasks:

1. Unit and integration testing:
   * Objective: To ensure that individual components and integrated components work as expected.
   * Details: Write and execute unit tests for individual components, and integration tests for testing the interactions between different components.
   * Outcome: A system with identified and fixed bugs, ready for user acceptance testing.
2. User acceptance testing:
   * Objective: To ensure that the system meets the user and business requirements.
   * Details: Conduct user acceptance testing with end-users to ensure the system meets their expectations and the project requirements.
   * Outcome: A system validated by end-users, ready for deployment.
3. Performance and security testing:
   * Objective: To ensure the system performs well under load and is secure from potential threats.
   * Details: Conduct performance testing under various loads, and security testing to identify and fix any vulnerabilities.
   * Outcome: A robust and secure system ready for deployment.

Phase 5: Deployment and Delivery (December 6 - December 9)

Main Objective:

To deploy the system to a production environment, ensuring it meets all stakeholder requirements.

Sub-tasks:

1. Setup of production environment:
   * Objective: To prepare the production environment for deployment.
   * Details: Set up the servers, databases, and other necessary infrastructure for deploying the application to a production environment.
   * Outcome: A production environment ready for deployment.
2. Deployment of application:
   * Objective: To deploy the application to the production environment.
   * Details: Deploy the backend services, frontend application, and set up any necessary monitoring tools.
   * Outcome: A live system accessible to end-users.
3. Final review meeting with stakeholders:
   * Objective: To ensure that all requirements have been met and gather any final feedback from stakeholders.
   * Details: Conduct a final review meeting with stakeholders to go over the project and ensure all requirements have been fulfilled.
   * Outcome: Final approval from stakeholders and readiness for post-deployment support.

Phase 6: Post-Deployment Support and Monitoring (December 9- December 10)

Main Objective:

To provide support for any post-deployment issues and monitor the system for any unexpected behavior.

Sub-tasks:

1. Setup monitoring tools:
   * Objective: To have a monitoring system in place to track the system’s performance and any unexpected behavior.
   * Details: Set up monitoring tools to track system performance, error rates, and other relevant metrics.
   * Outcome: A monitoring system that provides insights into the system’s performance and health.
2. Provide training and support documentation:
   * Objective: To ensure that users have the necessary knowledge and resources to use the system effectively.
   * Details: Create and distribute user manuals, conduct training sessions, and provide a support channel for users to report issues or seek assistance.
   * Outcome: Well-informed users and a support system for addressing user issues.
3. Address any post-deployment issues or bugs:
   * Objective: To ensure that any issues or bugs encountered post-deployment are quickly addressed.
   * Details: Set up a process for reporting and addressing bugs, ensuring that any reported issues are resolved in a timely manner.
   * Outcome: A stable system with minimized post-deployment issues.

Phase 7: Documentation and Final Review (December 10- December 11)

Main Objective:

To finalize all project documentation and conduct a review to evaluate the project process and outcome.

Sub-tasks:

1. Finalization of system documentation:
   * Objective: To have complete and up-to-date documentation for the system.
   * Details: Update and finalize all system documentation including technical specifications, user manuals, and system architecture diagrams.
   * Outcome: Comprehensive documentation for future reference and support.
2. Conducting a lessons learned session:
   * Objective: To gather insights from the project for future improvements.
   * Details: Conduct a lessons learned session with the project team and stakeholders to discuss what went well, what didn’t, and what could be done differently in future projects.
   * Outcome: Valuable insights for improving future projects.
3. Project closure:
   * Objective: To formally close the project, ensuring all deliverables are accepted and all objectives are met.
   * Details: Conduct a project closure meeting, finalize all project documentation, and ensure all deliverables are handed over to the stakeholders or maintenance teams.
   * Outcome: A successfully closed project with all objectives met and deliverables handed over.