Initial Report: Research Project Management Software

1.1 Functional Requirements

- Manage research project information provided by the University Grants Commission (UGC).
- Facilitate proposal submissions from researchers.
- Offer an optional reviewer assignment and evaluation process.
- Implement a project selection system based on defined criteria (potentially incorporating reviewer evaluations).
- Generate and send notification emails to researchers regarding project selection/rejection.

1.2 Non-Functional Requirements

- User-friendly interface for researchers and (optional) reviewers.
- Secure data storage for proposals, evaluations, and project information.
- Scalability to accommodate a growing number of proposals and users.

2. DFD Description

External Entities:
- **University Grants Commission (UGC):** Provides research project information and receives reports.
- **Researchers:** Submit proposals and receive notifications.
- **Reviewers (potential):** Participate in the evaluation process (if applicable).

Data Flows:

- **Research project information:** From UGC to the system.
- **Proposal submissions:** From researchers to the system.
- **Proposal evaluations (potential):** From reviewers to the system.
- **Notifications:** From the system to researchers (regarding selection/rejection).
- **Reports:** From the system to UGC (e.g., project progress reports).

Processes:

1. **Invitation/Circular Management:** Creates and distributes announcements/advertisements for research projects based on UGC information.
2. **Proposal Submission:** Handles proposal submissions from researchers.
3. **Evaluation (potential):** Assigns reviewers to proposals, collects evaluations, and makes decisions on shortlisting (if applicable) and final project selection.
4. **Project Selection:** Selects projects for funding based on evaluation results.
5. **Notification:** Informs researchers about project selection/rejection decisions.

Data Stores:

- **Research project information:** Stores information about research projects (e.g., funding allocations).
- **Proposal information:** Stores details of submitted proposals (e.g., project details, budgets, researcher information).
- **Evaluation data (if applicable):** Stores reviewer evaluations and selection decisions.