# Project Design Phase-II

## Data Flow Diagram & User Stories

Date: 9 August 2025

Team ID: —

Project Name: MERN Stack Freelancer Hub

Maximum Marks: 4 Marks

### Data Flow Diagrams

DFD Level 0 – Freelancer Hub Overview  
Actors: Client, Freelancer, Admin, Payment Gateway.  
1. Client posts a project → Stored in database.  
2. Freelancer browses & bids → Bid details stored.  
3. Client shortlists & awards project → Notification sent to freelancer.  
4. Freelancer delivers work → Client approves & triggers payment via Payment Gateway.  
5. System updates profiles & reviews → Stored in database.

DFD Level 1 (Simplified):  
Modules:  
- Authentication Service: Handles registration, login, and profile management.  
- Project Management: Create, browse, bid, award.  
- Messaging System: Real-time chat between client & freelancer.  
- Payment & Escrow: Secures funds until project completion.  
- Review System: Collects ratings and feedback.

### User Stories

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance Criteria | Priority | Release |
| Client (Web) | Registration | USN-1 | As a client, I can register with email & password to post projects. | I can create an account & access my dashboard. | High | Sprint-1 |
|  |  | USN-2 | As a client, I receive an email confirmation after registration. | I can click a link to verify my account. | High | Sprint-1 |
|  | Login | USN-3 | As a client, I can log in with my credentials. | I can access my dashboard after successful login. | High | Sprint-1 |
|  | Post Project | USN-4 | As a client, I can post a project with title, description, budget, and deadline. | Project appears in public listings. | High | Sprint-1 |
|  | Award Project | USN-5 | As a client, I can award a project to a freelancer. | Freelancer receives a notification. | High | Sprint-2 |
| Freelancer (Web) | Registration | USN-6 | As a freelancer, I can register with email & password to browse & bid on projects. | I can log in and access project listings. | High | Sprint-1 |
|  | Browse & Search | USN-7 | As a freelancer, I can browse and filter projects by category, budget, and date. | I can see relevant filtered results. | High | Sprint-2 |
|  | Bid on Project | USN-8 | As a freelancer, I can place bids with proposed budget and timeline. | My bid appears in the project’s bid list. | High | Sprint-2 |
| Both Users | Messaging | USN-9 | As a user, I can chat with other party in real time. | Messages appear instantly without refresh. | High | Sprint-2 |
|  | Payment | USN-10 | As a user, I can make or receive payments through an escrow system. | Funds are released only after approval. | High | Sprint-3 |
|  | Ratings & Reviews | USN-11 | As a user, I can rate and review the other party after project completion. | Reviews appear on profile pages. | Medium | Sprint-3 |
| Admin | Manage Users | USN-12 | As an admin, I can suspend or verify users. | Status changes reflect in the database. | High | Sprint-1 |
|  | Manage Disputes | USN-13 | As an admin, I can review disputes and make final decisions. | Dispute status updates in system. | High | Sprint-3 |