1. Business Requirements Document (BRD)

- All applicants have access to internet services.

Objective:
To create a streamlined, digital loan management workflow for processing loan applications, reducing manua
intervention and turnaround time.
Stakeholders:
- Applicants (Customers)
- Loan Officers
- Underwriters
- Risk and Compliance Team
- IT Team
Scope:
- Online loan application submission
- Document verification
- Credit evaluation
- Approval/Rejection
- Disbursal and repayment tracking
Out of Scope:
- Collections and recovery process
Assumptions:

- Regulatory compliance requirements are up to date.
Constraints:
- Integration with legacy systems may require additional time and budget.
2. Gap Analysis (As-Is vs To-Be)
As-Is Process:
- Paper-based forms submitted at branch
- Manual verification of documents
- Offline credit checks and approvals
To-Be Process:
- Online application portal
- Automated document verification using OCR
- Integration with credit bureau APIs for instant credit checks
- Automated approval for standard loan profiles
Gaps Identified:
- Lack of automation in document and credit evaluation
- No centralized tracking of loan status
- Limited reporting capabilities
3. Functional Requirements (SRS)

- The system shall allow users to create a loan application online.
- The system shall accept document uploads in PDF/JPEG formats.
- The system shall perform document validation using OCR.
- The system shall fetch credit score from an integrated credit bureau API.
- The system shall calculate eligibility based on income, score, and existing liabilities.
- The system shall assign the application to a loan officer for review if not auto-approved.
- The system shall notify the applicant via email/SMS at each milestone.

4. User Stories

User Story 1: Submit Loan Application

As an applicant, I want to submit a loan application online so that I can apply without visiting the branch.

User Story 2: Upload Documents

As an applicant, I want to upload ID proof and income documents so that the bank can verify my eligibility.

User Story 3: Perform Credit Check

As a system, I want to automatically fetch the applicants credit score so that it can be used in the approval process.

User Story 4: Notify Applicant

As a system, I want to send status updates via email/SMS so that the applicant remains informed.

User Story 5: Manual Review by Loan Officer

As a loan officer, I want to review applications that fail automated checks so I can make a manual decision.

User Story 6: Track Loan Status

As an applicant, I want to view the status of my application so that I know its progress.

5. Test Cases

Test Case 1: Verify Online Application Submission

- Input: Valid personal, financial details
- Expected: Application saved, confirmation sent

Test Case 2: Upload Document Validation

- Input: Valid and invalid file formats
- Expected: Accept PDF/JPEG, reject others

Test Case 3: Credit Check API Integration

- Input: Valid SSN and personal info
- Expected: Return score or API error

Test Case 4: Automated Approval Logic

- Input: High credit score, stable income
- Expected: Application auto-approved

Test Case 5: Notification System

- Action: Application status updated
- Expected: Email/SMS sent to applicant

6. Business Rules Catalog

Rule 1: Minimum Credit Score for Auto-Approval = 700

Rule 2: DTI (Debt-to-Income) Ratio must be < 40%

Rule 3: Maximum loan amount based on income tier

Rule 4: Loan applications from high-risk zones must undergo manual review

Rule 5: Incomplete applications are auto-rejected after 7 days

7. Diagrams (Description only)

1. Process Flow Diagram:

- Start Submit Application Upload Documents Credit Check Auto-Approve/Manual Review Notify

Applicant Disburse Loan

2. Use Case Diagram:

- Actors: Applicant, System, Loan Officer

- Use Cases: Submit Application, Upload Documents, View Status, Review Application

3. State Diagram:

- States: Draft Submitted Under Review Approved/Rejected Disbursed