

Nyord - Digital Banking System

Presentation Duration: 3-5 minutes

What is it? A complete online banking website like your regular bank's mobile app

What Does This Project Do?

Imagine having your own bank! Nyord lets users do everything they would normally do at a real bank, but online. Just like using HDFC, SBI, or ICICI's mobile app.

Main Features - What Can Users Do?

1. Create and Manage Bank Accounts

- Open different types of accounts (Savings, Current, Salary)
- Have multiple accounts (like having both a savings and current account)
- Check balance anytime
- View account statements showing all transactions
- Get a **unique QR code** for each account (like UPI QR codes you see at shops)

2. Send and Receive Money

- Transfer money between your own accounts
- Send money to other users instantly
- Get instant notifications when money arrives
- See all your transaction history

3. Fixed Deposits (Save Money & Earn Interest)

- Put money in Fixed Deposit to earn interest (like FD in real banks)
- Choose how long to lock your money (6 months, 1 year, etc.)
- Earn monthly compound interest (your money grows faster!)
- Renew your FD when it matures
- **Cancel FD early** if you need money urgently
 - Small penalty if you withdraw too early
 - Get your money back in your account immediately

4. Apply for Loans

- Apply for personal, home, or vehicle loans
- Admin reviews and approves your loan
- **Automatic EMI payment** - Money deducted automatically every month
 - No need to remember payment dates
 - System checks your account daily
 - Sends notification if balance is low
 - Loan automatically closes when fully paid

5. Credit/Debit Cards

- Apply for cards (Premium, Platinum, Gold, Standard)
- Each card has different benefits and credit limits
- Block/unblock cards if lost
- Track your spending

6. Login & Security

- Secure login with username and password
- Two types of users: Regular customers and Bank admins
- KYC verification (identity proof) required
- Personal profile with all your details

⌚ Smart Features That Make It Special

1. Automatic Loan Payments

- System wakes up every night at 12 AM
- Checks if anyone has loan EMI due today
- Automatically deducts money from their account
- Sends notification about payment
- If money not enough, sends alert instead of penalty

2. Multiple Account QR Codes

- Each of your accounts gets its own QR code
- Share QR with anyone to receive money (like PhonePe/Paytm)
- Download and save QR codes
- Share directly from the app

3. Real-Time Notifications

- Get instant alerts when money comes or goes
- Loan payment confirmations
- Card approval status
- All updates happen live (no need to refresh page)

4. Smart Interest Calculation

- Fixed deposits calculate interest monthly (not yearly)
- Makes your money grow faster
- Penalty logic for early withdrawal is fair and transparent

💻 How It's Built (Simple Explanation)

Think of it like building a house:

The Front Part (What You See)

- Beautiful, modern design that works on phone and computer
- Dark mode for night time use
- Easy to understand buttons and menus

The Back Part (Brain of the System)

- Stores all data safely (like your bank vault)
- Processes all transactions
- Keeps everything secure

The Worker (Background Helper)

- Works 24/7 in the background
 - Does automatic tasks (like EMI deductions)
 - Sends notifications
 - Processes transactions
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Real-Life Example: How Automatic EMI Works

Let's say **Rahul** took a ₹1,00,000 loan with ₹5,000 monthly EMI:

1. **Every night at 12 AM**, the system checks all loans
2. Finds Rahul's EMI is due today
3. Checks his account - he has ₹15,000
4. Deducts ₹5,000 automatically
5. Sends notification: "EMI paid successfully"
6. His loan balance reduces to ₹95,000
7. Next EMI date set to next month

What if Rahul only had ₹2,000?

- System won't deduct (no penalty!)
 - Sends alert: "Low balance - EMI payment failed"
 - Rahul can add money and pay manually
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Recent Improvements Made

Better Fixed Deposits

- Can now choose which account to use for FD
- Cancel FD anytime (with small penalty if too early)
- Interest calculated monthly (more accurate)
- Can renew FD easily when it matures

Smarter Loan System

- Fully automatic EMI - no manual work

- Fair system - no deduction if balance low
- Loan automatically closes when fully paid
- Real-time notifications for everything

Multiple Account Support

- Each account gets its own QR code
 - Choose which account for FD or loan
 - Easy switching between accounts
 - See all account balances at once
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⌚ Why This Project Matters

Solves Real Problems:

1. **Forgetful about EMI?** → System pays automatically
2. **Multiple accounts confusing?** → Easy to manage all in one place
3. **Want to save money?** → FD with good interest rates
4. **Need instant transfers?** → Real-time money transfers
5. **Lost track of transactions?** → Complete history available

What I Learned:

- How real banking systems work behind the scenes
 - Building websites that handle money safely
 - Making things happen automatically (like EMI deduction)
 - Sending instant notifications to users
 - Keeping user data secure and private
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✍ What Could Be Added Next?

More Features:

- 📧 Email and SMS alerts for transactions
- 🔒 Extra security with OTP/2FA
- 📊 Charts showing spending patterns
- 💡 Bill payment (electricity, phone, etc.)
- 🎁 Rewards and cashback system
- 📱 Mobile app (Android/iOS)

Better Experience:

- Voice commands for transfers
 - Fingerprint login
 - AI chatbot for help
 - Language options (Hindi, Tamil, etc.)
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Project Statistics

-  **Users:** Can handle unlimited customers
 -  **Accounts:** Multiple accounts per user
 -  **Transactions:** Instant processing
 -  **FDs:** Create, renew, or cancel anytime
 -  **Loans:** Auto EMI with smart notifications
 -  **Cards:** 4 types with different benefits
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Final Thoughts

This project shows that banking doesn't have to be complicated. With smart automation and user-friendly design, anyone can manage their money easily.

Key Highlights:

-  Everything works automatically in background
-  User doesn't need to worry about due dates
-  Safe and secure like real banks
-  Works on phone, tablet, and computer
-  Real-time updates - always know what's happening

The goal was to make banking **simple, automatic, and stress-free** - and that's exactly what Nyord does!

Thank You!

Any Questions?

Want to see it in action? I can show you:

- How to create an account
- Sending money between accounts
- Creating a fixed deposit
- How automatic EMI works
- The QR code system