Modules & Features Breakdown

1. User Module

- User registration & login
- Password encryption
- Session management
- Profile info

i 2. Expense Management Module

- Add/Edit/Delete expenses
- Select category (food, rent, travel, etc.)
- Attach optional notes
- Date-wise filtering

💸 3. Income Management Module

- Add income sources (salary, freelance, etc.)
- View total income this month
- Tag incomes by type

4. Budget Planner Module

- Set monthly budget
- Allocate category-wise budget
- View planned vs actual
- Auto alerts if budget exceeds

🚺 5. Analytics & Reporting Module

- Pie chart: Category-wise expense
- Bar graph: Income vs Expense over months
- Monthly savings overview
- Visual progress indicators

👲 6. Export & PDF Module

- Export reports as PDF or Excel
- Monthly summary download
- Auto-generated PDF with user data (iText/PDFBox)

• 7. Multi-Currency Module (Optional)

- Convert expenses using real-time rates
- Currency selector per transaction
- Fetch rates using OpenExchangeRates API

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| Web Browser |
 | HTML/CSS/JS Front |
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| Controller Layer | <-- (Spring Boot / Servlet)
| Handles REST APIs |
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| Service Layer | <-- Business logic
| (ExpenseService, |
| BudgetService, etc) |
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    +----+
| Repository Layer | <-- DAO/Repository (JPA, JDBC)
| MySQL Database |
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| External APIs | <-- (Optional: OpenExchangeRates)
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```