Priority Features - Detailed TODO Lists & Development Plan

**** 12 Priority Features Development Tasks**

Based strictly on features listed in docs/priority_features.md

7 PHASE 1: Foundation & Quick Wins (Months 1-3)

1. Subscription Manager 🙀 [START FIRST - QUICK WIN]

Track and optimize recurring subscriptions with cancellation reminders

Backend Development Tasks:

- Create subscriptions table with fields:
 - id, user_id, name, category, amount, billing_frequency, next_billing_date
 - provider, status, auto_renew, cancellation_date, notes
- Create subscription_categories table (streaming, utilities, software, etc.)
- Implement subscription detection algorithm from expense patterns
- Build /api/subscriptions CRUD endpoints
- Create /api/subscriptions/detect endpoint for pattern recognition
- Implement /api/subscriptions/analytics for cost analysis
- Add subscription reminder system with email notifications
- Create subscription cost optimization engine
- Duild duplicate subscription detection logic
- Write comprehensive unit tests for all subscription logic

Frontend Development Tasks:

- Create SubscriptionManager.jsx main component
- Design subscription overview dashboard with:
 - Monthly/yearly cost summaries
 - Category breakdown charts
 - Upcoming renewal calendar
- Implement subscription creation/editing forms
- Add subscription detection interface showing potential subscriptions
- Create subscription analytics dashboard
- Implement cancellation reminder system
- Add subscription sharing/family account features
- Design mobile-responsive subscription cards
- Create subscription cost comparison tools
- Add export functionality for subscription data
- Write component tests for all subscription features

Integration Tasks:

- Connect subscription detection to existing expense data
- Integrate with calendar API for renewal reminders
- Add email notification system integration
- Connect to SMS notification system (optional)
- Create subscription budget impact analysis

Estimated Time: 2-3 weeks

2. Travel Budget Planner 🙀 [QUICK WIN]

Trip cost estimation, currency conversion, travel expense tracking

Backend Development Tasks:

- Create travel_budgets table with fields:
 - id, user_id, trip_name, destination, start_date, end_date
 - total_budget, currency, status, actual_spent
- Create travel_expenses table linked to travel budgets
- Create travel_categories table (accommodation, food, transport, activities, etc.)
- Implement currency conversion API integration (Exchange Rate API or Fixer.io)
- Duild /api/travel-budgets CRUD endpoints
- Create /api/travel-budgets/{id}/expenses expense tracking endpoints
- Implement /api/currencies for real-time exchange rates
- Add travel budget analytics and reporting endpoints
- Create travel expense categorization system
- Duild budget vs actual spending comparison logic
- Write unit tests for currency conversion and budget calculations

Frontend Development Tasks:

- Create TravelBudgetPlanner.jsx main component
- Design travel budget creation wizard with:
 - Destination selection with currency auto-detection
 - Budget category templates by destination type
 - Duration-based budget estimation
- Implement multi-currency expense tracking interface
- Add real-time currency conversion display
- Create travel expense entry forms with category selection
- Design travel budget dashboard with progress visualization
- Implement budget vs actual spending comparison charts
- Add travel itinerary integration (optional)
- Create travel expense receipt upload functionality
- Design shared travel budget features for group travel
- Add travel budget export and sharing features
- Write comprehensive component tests

Integration Tasks:

- Integrate with currency exchange rate APIs
- Connect travel expenses to main expense tracking system
- Add geolocation services for automatic expense categorization
- Integrate with receipt scanner (when available in Phase 2)

Estimated Time: 2-3 weeks

3. Fee Tracker (BUILDS ON SUBSCRIPTION MANAGER)

Monitor and minimize banking and investment fees

Backend Development Tasks:

- Create fee_categories table with predefined fee types:
 - Banking fees (overdraft, ATM, monthly maintenance, wire transfer)
 - Investment fees (management, trading, advisory, expense ratios)
 - Credit card fees (annual, late payment, foreign transaction)
- Create tracked_fees table linking fees to transactions and accounts
- Implement fee detection algorithm from transaction descriptions
- Duild /api/fees endpoints for fee tracking and analysis
- Create /api/fees/analysis for fee optimization recommendations
- Implement fee alert system for unusual or high fees
- Add fee comparison tools for different financial institutions
- Create fee forecasting based on usage patterns
- Build fee minimization suggestion engine
- Write unit tests for fee detection and analysis algorithms

Frontend Development Tasks:

- Create FeeTracker.jsx main component
- Design fee dashboard with:
 - Monthly/yearly fee summaries by category
 - Fee trend analysis charts
 - Institution comparison tables
- Implement fee detection review interface
- Add manual fee entry and categorization forms
- Create fee alert configuration dashboard
- Design fee optimization recommendations display
- Implement fee comparison tools between institutions
- Add fee impact calculator (annual cost of fees)
- Create fee reduction progress tracking
- Design fee negotiation tips and templates
- Write component tests for fee tracking features

Integration Tasks:

Connect fee detection to existing transaction data
 Integrate with subscription manager for recurring fees
 Link to bank account information for institution comparison
 Connect to investment accounts for investment fee tracking

Estimated Time: 3-4 weeks

4. Loan Comparison Tool

Compare mortgage, auto, and personal loan options

Backend Development Tasks:

- Create loan_products table with fields:
 - id, institution_name, loan_type, interest_rate, term_months
 - o minimum amount, maximum amount, fees, requirements
- Create loan_comparisons table for user-saved comparisons
- Implement loan calculation engine (monthly payments, total interest, APR)
- Duild /api/loans endpoints for loan product management
- Create /api/loans/calculate for payment calculations
- Implement /api/loans/compare for side-by-side comparisons
- Add loan rate API integration (if available)
- Create loan affordability calculator
- Implement amortization schedule generation
- Build loan pre-qualification assessment tools
- Write unit tests for all loan calculations

Frontend Development Tasks:

- □ Create LoanComparison.jsx main component
- Design loan comparison wizard with:
 - Loan type selection (mortgage, auto, personal)
 - Amount and term input forms
 - Credit score range selection
- Implement loan calculator with real-time updates
- Add side-by-side loan comparison table
- Create amortization schedule visualization
- Design loan affordability assessment dashboard
- Implement loan shopping checklist and tips
- Add loan application tracking system
- Create loan rate alert system for favorable rates
- Design pre-qualification form integration
- Write component tests for loan comparison features

Integration Tasks:

Integrate with loan rate APIs or web scraping services

- Connect to credit score data (if available)
- Link to existing budget data for affordability analysis
- Integrate with document vault for loan document storage

Estimated Time: 3-4 weeks

PHASE 2: Document & Security Infrastructure (Months 4-6)

5. Document Vault (SECURITY FOUNDATION)

Secure storage for financial documents with encryption

Backend Development Tasks:

- Set up secure file storage system (AWS S3 or similar with encryption)
- Create documents table with fields:
 - id, user_id, filename, original_name, file_type, file_size
 - storage_path, encryption_key_id, category, tags, upload_date
- Create document_categories table (tax docs, insurance, loans, etc.)
- Implement file encryption/decryption system with AES-256
- Duild /api/documents CRUD endpoints with security
- Create /api/documents/upload with virus scanning
- Implement /api/documents/search with full-text search
- Add document versioning and backup system
- Create document access logging and audit trails
- Implement document sharing with permission controls
- Build document expiration and retention policies
- Write security-focused unit tests

Frontend Development Tasks:

- Create DocumentVault.jsx main component
- Design secure document upload interface with:
 - o Drag-and-drop file upload
 - File type validation and virus scanning feedback
 - Upload progress and encryption status
- Implement document organization system with folders/tags
- Add document preview functionality (PDF, images)
- Create document search and filtering interface
- Design document sharing and permission management
- Implement document download with decryption
- Add document metadata editing forms
- Create document audit log viewer
- Design mobile document scanner integration
- Write security-focused component tests

Security & Infrastructure Tasks:

PRIORITY_FEATURES_TODO_LISTS.md	20
 Implement end-to-end encryption for document storage 	
Set up automated backup and disaster recovery	
Create document access control and permissions system	
 Implement secure document deletion (cryptographic shredding) 	
 Add document integrity verification (checksums) 	
Set up virus scanning and malware detection	
Create audit logging for all document operations	
 Implement document retention policy enforcement 	
Estimated Time: 4-5 weeks	
6. Receipt Scanner 😭 [BUILDS ON DOCUMENT VAULT]	
OCR technology to scan and digitize receipts	
Backend Development Tasks:	
Create receipts table with fields:	
id, user_id, document_id, merchant_name, total_amount, da	te
currency, tax_amount, payment_method, ocr_confidence, ma	nual_verified
 Create receipt_line_items table for itemized receipts 	
 Integrate OCR service (Google Vision API, AWS Textract, or Tesseract) 	
 Build /api/receipts/scan endpoint for OCR processing 	
 Implement receipt data extraction algorithm 	
 Create /api/receipts/verify for manual verification 	
 Add receipt-to-expense conversion system 	
 Implement receipt duplicate detection 	
 Build receipt search and filtering endpoints 	
 Create receipt analytics and reporting 	
 Write OCR accuracy tests and benchmarks 	
Frontend Development Tasks:	
• Create ReceiptScanner.jsx main component	
 Design mobile-first receipt capture interface with: 	

•	Design mobile-first receipt capture interface with:		
	0	Camera integration for photo capture	
	0	Image preview and crop functionality	
	0	Real-time OCR processing feedback	
•	☐ lm	plement receipt data verification interface	
•	 Add receipt-to-expense conversion workflow 		
 Create receipt gallery and management system 			
 Design receipt data editing forms 			
•	 Implement receipt search and filtering 		
•	 Add batch receipt processing capabilities 		
•	 Create receipt accuracy improvement feedback system 		
•	 Design receipt analytics dashboard 		

• Urite component tests for OCR workflow

Integration Tasks:

- Integrate with Document Vault for receipt storage
- Connect receipt data to expense tracking system
- Link receipt scanner to travel budget expenses
- Integrate with mobile camera APIs
- Connect to merchant database for better recognition

Estimated Time: 5-6 weeks

7. Estate Planning

Will and beneficiary management

Backend Development Tasks:

- Create estate_documents table with fields:
 - id, user_id, document_type, status, last_updated
 - beneficiaries, executor_info, legal_review_date
- Create beneficiaries table with contact and allocation information
- Create estate_assets table linking assets to estate planning
- Duild /api/estate-planning CRUD endpoints
- Implement will template system with legal compliance
- Create beneficiary notification system
- Add estate document versioning and history
- Implement estate value calculation from existing assets
- Duild estate planning checklist and progress tracking
- Create emergency contact management system
- Write tests for legal compliance requirements

Frontend Development Tasks:

- Create EstatePlanning.jsx main component
- Design estate planning wizard with:
 - Asset inventory from existing data
 - Beneficiary management forms
 - Will template selection and customization
- Implement beneficiary allocation interface
- Add estate document management dashboard
- Create estate planning progress tracking
- Design emergency contact management
- Implement estate planning reminders and updates
- Add legal resource links and guidance
- Create estate planning checklist interface
- Design estate document sharing (with executor)
- Write component tests for estate planning workflow

Legal & Compliance Tasks:

- Research legal requirements by state/jurisdiction
- Create compliant will templates
- Implement legal disclaimer and guidance system
- Add attorney referral system integration
- Create legal document review reminders

Estimated Time: 4-5 weeks

8. Financial Power of Attorney

Emergency contact and account access management

Backend Development Tasks:

- Create power_of_attorney table with fields:
 - id, user_id, attorney_contact_id, authorization_level, effective_date
 - expiration_date, status, authorization_document_id
- Create emergency_contacts table with detailed contact information
- Create account_authorizations table for specific account access
- Duild /api/power-of-attorney management endpoints
- Implement authorization verification system
- Create emergency access request workflow
- Add authorization audit logging system
- Implement authorization revocation system
- Build emergency contact notification system
- Create authorization document management
- Write security-focused tests for authorization system

Frontend Development Tasks:

- Create PowerOfAttorney.jsx main component
- Design power of attorney setup wizard with:
 - Emergency contact selection and verification
 - Authorization level configuration
 - Legal document upload and verification
- Implement authorization management dashboard
- Add emergency contact management interface
- Create authorization audit log viewer
- Design emergency access request system
- Implement authorization revocation interface
- Add legal guidance and template system
- Create authorization status monitoring
- Write component tests for authorization workflow

Security & Legal Tasks:

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 Implement multi-factor authentication for attorney access Create secure authorization verification system Add legal document verification requirements Implement emergency access protocols Create authorization abuse detection system Estimated Time: 4-5 weeks			
PHASE 3: Advanced Integrations (Months 7-12)			
9. Email Receipt Processing 🚖 [BUILDS ON RECEIPT SCANNER]			
Automatically process emailed receipts			
Backend Development Tasks:			
 Set up email integration system (IMAP/Exchange integration) Create email_accounts table for user email configuration Create email_receipts table for processed email receipts Implement email parsing and attachment extraction Build receipt detection algorithm for email content Create /api/email-receipts processing endpoints Implement email security and authentication verification Add email rule management system Create email processing queue and batch system Implement spam and phishing detection for receipts Build email receipt forwarding system Write tests for email processing security 			
Frontend Development Tasks:			
 Create EmailReceiptProcessor.jsx main component Design email account configuration interface Implement email receipt processing dashboard Add email rule management interface Create processed receipt review workflow Design email receipt search and filtering Implement email processing status monitoring Add email receipt accuracy improvement tools Create email security and privacy settings Write component tests for email processing workflow 			

Security & Integration Tasks:

- 🔲 Implement OAuth2 for email account access
- \square Add email encryption and secure storage
- Create email access audit logging

PRIORITY_FEATURES_TODO_LISTS.md Integrate with existing receipt scanner infrastructure Implement email processing rate limiting **Estimated Time: 6-8 weeks** 10. Family Financial Dashboard 🙀 [MAJOR FEATURE] Multi-user accounts with permission levels **Backend Development Tasks:** • Design multi-tenant database architecture • Create family_groups table with group management • Create family_members table with role-based permissions Create permission_levels table (admin, manager, viewer, child) • Implement data isolation and security for family accounts Build /api/family group management endpoints • Create /api/family/members member management endpoints • Implement permission-based data access controls Add family data aggregation and reporting Create family budget and goal sharing system • Implement family expense approval workflows • Duild family communication and notification system Write comprehensive multi-user security tests **Frontend Development Tasks:** Create FamilyDashboard.jsx main component • Design family group creation and management interface Implement role-based permission management Add family member invitation and onboarding system Create family financial overview dashboard Design shared budget and goal management • Implement family expense tracking and approval • Add family communication center Create family financial education center

Multi-User Architecture Tasks:

Implement role-based access control (RBAC)

 Design family privacy and data sharing controls Write component tests for multi-user functionality

- Create data privacy and sharing controls
- Add family data aggregation algorithms
- Implement cross-user notification system
- Create family account billing and subscription management

Estimated Time: 8-10 weeks

11. Bank Account Integration 🙀 [MOST COMPLEX]

Real-time bank feeds and automatic transaction import

Backend Development Tasks:

- Research and select bank integration provider (Plaid, Yodlee, Finicity)
- Create bank_connections table for account linking
- Create external_accounts table for bank account information
- Create imported transactions table with deduplication
- Implement Plaid API integration for account linking
- Duild /api/bank-integration connection management endpoints
- Create automatic transaction import and categorization
- Implement transaction deduplication and matching
- Add real-time webhook processing for account updates
- Create account balance synchronization system
- Implement bank integration error handling and retry logic
- Duild comprehensive integration monitoring and logging
- Write security and compliance tests

Frontend Development Tasks:

- Create BankIntegration.jsx main component
- Design secure bank account linking interface
- Implement Plaid Link integration for account connection
- Add bank account management dashboard
- Create transaction import review and approval system
- Design automatic categorization settings
- Implement bank account synchronization monitoring
- Add bank integration troubleshooting tools
- Create bank account security and privacy settings
- Write component tests for bank integration workflow

Security & Compliance Tasks:

- Implement bank-level security requirements
- Add comprehensive audit logging for all bank operations
- Create data encryption for bank credentials
- Implement PCI DSS compliance requirements
- Add bank integration monitoring and alerting

Estimated Time: 10-12 weeks

12. Financial Institution APIs 😭 [FINAL INTEGRATION]

Direct integration with major banks and brokerages

Backend Development Tasks:

- Extend bank integration to support investment accounts
- Create brokerage_connections table for investment account linking
- Create investment_transactions table for trading activity
- Implement multiple API provider support (Plaid, Yodlee, Finicity)
- Duild comprehensive account aggregation system
- Create /api/financial-institutions management endpoints
- Implement investment position and performance tracking
- Add multi-institution portfolio aggregation
- Create financial institution data synchronization
- Implement advanced transaction categorization across institutions
- Duild financial institution API monitoring and failover
- Write comprehensive integration tests

Frontend Development Tasks:

- Create FinancialInstitutions.jsx management interface
- Design comprehensive account aggregation dashboard
- Implement multi-institution portfolio view
- Add institution connection management tools
- Create aggregated financial reporting dashboard
- Design institution-specific data handling interfaces
- Implement advanced filtering and search across institutions
- Add institution API status monitoring dashboard
- Create comprehensive financial institution settings
- Write component tests for multi-institution functionality

Advanced Integration Tasks:

- Implement real-time data synchronization across all institutions
- Create advanced financial analytics across all accounts
- Add institution-specific feature support
- Implement comprehensive error handling and user notification
- Create advanced security monitoring for all institution connections

Estimated Time: 12-14 weeks

Implementation Timeline Summary

Phase 1 Duration: 10-14 weeks

Subscription Manager: 2-3 weeksTravel Budget Planner: 2-3 weeks

• Fee Tracker: 3-4 weeks

• Loan Comparison Tool: 3-4 weeks

Phase 2 Duration: 17-21 weeks

Document Vault: 4-5 weeks
Receipt Scanner: 5-6 weeks
Estate Planning: 4-5 weeks

• Financial Power of Attorney: 4-5 weeks

Phase 3 Duration: 36-44 weeks

Email Receipt Processing: 6-8 weeks
Family Financial Dashboard: 8-10 weeks
Bank Account Integration: 10-12 weeks
Financial Institution APIs: 12-14 weeks

Total Project Duration: 63-79 weeks (15-19 months)

© Resource Requirements

Team Composition Recommendations:

- 1 Senior Full-Stack Developer: Architecture and complex integrations
- 2 Frontend Developers: UI/UX implementation and testing
- 2 Backend Developers: API development and database design
- 1 Security Specialist: Security implementation and compliance
- 1 DevOps Engineer: Infrastructure and deployment
- 1 QA Engineer: Testing and quality assurance

Critical Success Factors:

- 1. Security First: All features must meet banking-level security standards
- 2. Compliance: Ensure regulatory compliance for financial integrations
- 3. User Experience: Maintain intuitive interface despite feature complexity
- 4. Performance: Handle large volumes of financial data efficiently
- 5. Reliability: Ensure 99.9% uptime for critical financial features

Last Updated: August 2025

Priority Features TODO Lists v1.0

12 Features from docs/priority_features.md