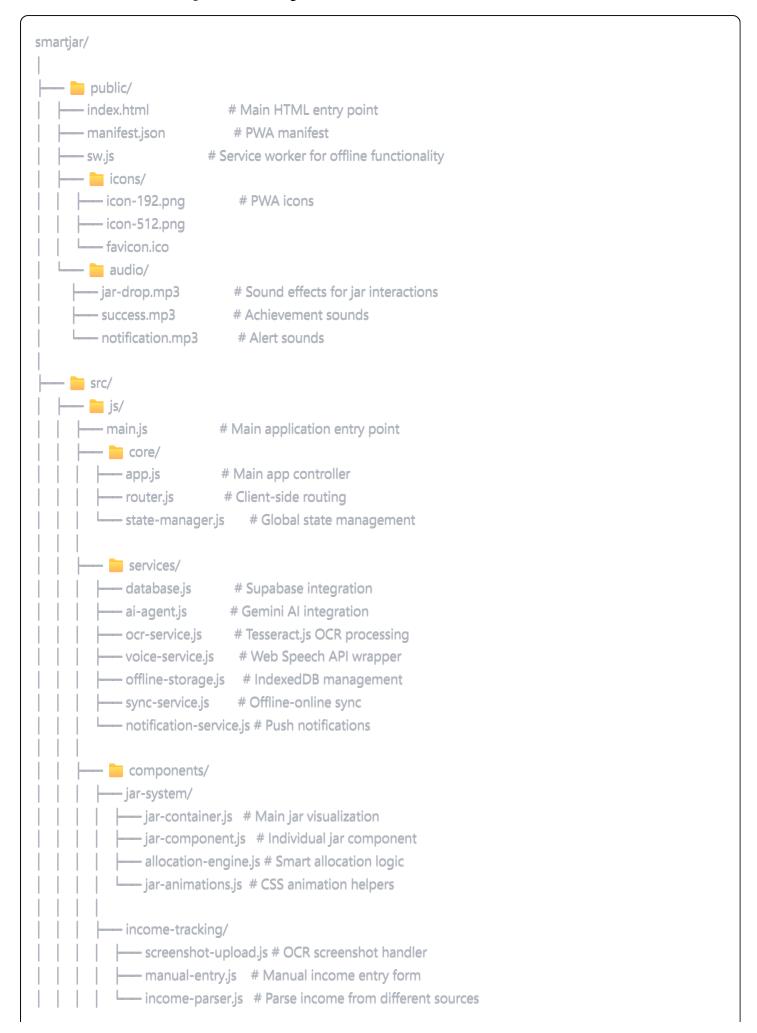
SmartJar - Complete Project Folder Structure



```
ai-coach/
           chat-interface.js # Al chat Ul
           voice-coach.js # Voice interaction handler
          - behavioral-analyzer.js # Spending pattern analysis
          - intervention-engine.js # Proactive financial advice
       - dashboard/
         — dashboard.js
                           # Main dashboard view
          progress-tracker.js # Goal tracking
          - insights-panel.js # Financial insights
          – history-view.js # Transaction history
       onboarding/
          welcome-flow.js # User onboarding
          profile-setup.js # User profile creation
          - jar-explanation.js # Explain jar concept
        — demo-tutorial.js # Interactive tutorial
       - common/
        — modal.js
                       # Reusable modal component
        — button.js
                      # Button components
        — form-elements.js # Form inputs
       — loader.js
                        # Loading states
     utils/
       - helpers.js
                        # General utility functions
       currency.js
                        # Currency formatting
       - date-utils.js
                       # Date manipulation
                        # Input validation
       validation.js
       - storage-utils.js # Storage helpers
      — device-utils.js # Device detection
     ai/
        agent-behaviors.js # Core Al agent logic
      — financial-rules.js # Rule-based financial logic

    pattern-detection.js # Spending pattern algorithms

    prediction-engine.js # Financial outcome predictions

   context-builder.js # Build context for AI calls
    - config/
      constants.js
                       # App constants
      supabase-config.js # Database configuration
      – ai-config.js
                      # Al service configuration
    --- app-config.js # General app settings
styles/
```

```
# Main stylesheet
  main.css
   components/
    - jars.css
                     # Jar visualization styles
    - dashboard.css
                       # Dashboard styles
    - forms.css
                       # Form styling
    - modals.css
                      # Modal styles
    - buttons.css
                      # Button styles
                       # CSS animations
    - animations.css
 - responsive/
   - mobile.css
                       # Mobile-specific styles
   tablet.css
                      # Tablet styles
   desktop.css
                       # Desktop styles
 - in themes/
  — light.css
                     # Light theme
  — dark.css
                     # Dark theme
  — variables.css
                     # CSS custom properties
assets/
   images/
   — jar-empty.svg
                      # Empty jar illustration
    – jar-filled.svg
                       # Filled jar illustration
    money-animation.gif # Money dropping animation
                         # Al coach character
    coach-avatar.png
                         # Onboarding illustrations
   onboarding/
     --- step1.svg
     --- step2.svg
      — step3.svg
   - icons/
                      # App icons
    --- salary-jar.svg
    --- emergency-jar.svg
   future-jar.svg
fonts/
custom-fonts.woff2
                         # Any custom fonts (if needed)
workers/
 – ocr-worker.js
                      # Tesseract.js worker
— sync-worker.js
                      # Background sync worker
— ai-worker.js
                       # Al processing worker
database/
                       # Supabase database schema
— schema.sql
 – migrations/
                       # Database migrations
   - 001_initial_setup.sql
   — 002_add_ai_features.sql
```

```
— 003_add_offline_support.sql
  – seed-data.js
                        # Sample data for testing
  — backup/
                       # Database backup scripts
  backup-schema.sql
 tests/
  - unit/
  —— allocation-logic.test.js # Test allocation algorithms
  ---- ocr-service.test.js # Test OCR functionality
  ai-agent.test.js # Test Al agent behaviors
  — integration/
  --- offline-sync.test.js # Test offline functionality
  voice-integration.test.js # Test voice features
____ e2e/
  ---- user-journey.test.js # Complete user flow tests
 demo-scenario.test.js # Hackathon demo scenarios
 a docs/
  — README.md
                          # Project documentation
  — API.md
                      # API documentation
  DEPLOYMENT.md
                             # Deployment guide
  — DEMO.md
                          # Demo script for judges
                            # User manual
 - USER-GUIDE.md
  architecture/
  ---- system-design.md
                         # System architecture
    — ai-agent-design.md # Al agent architecture
  ---- offline-strategy.md
                           # Offline-first approach
 deployment/
  vercel.json
                       # Vercel deployment config
  — scripts/
  ---- build.js
                       # Build script
  — deploy.js
                      # Deployment script
  setup-env.js
                       # Environment setup
   environment/
  ---- .env.example
                         # Environment variables template
    — dev.env
                       # Development environment
    — prod.env
                        # Production environment
  hackathon/
   pitch-deck.md
                          # Presentation slides
   - demo-script.md
                          # Demo walkthrough
   - user-personas.md
                           # Target user profiles
```



o Implementation Priority Order

Week 1: Foundation (Core Jar System)

- 1. (src/components/jar-system/) Build jar visualization
- 2. (src/services/database.js) Set up Supabase connection
- 3. (src/components/income-tracking/manual-entry.js) Basic income input
- 4. (styles/components/jars.css) Jar animations

Week 2: Smart Features

- 1. (src/services/ocr-service.js) Tesseract.js integration
- 2. (workers/ocr-worker.js) Background OCR processing
- 3. (src/ai/financial-rules.js) Rule-based advice system

4. (src/services/offline-storage.js) - IndexedDB setup

Week 3: AI & Polish

- 1. src/services/ai-agent.js Gemini API integration
- 2. (src/services/voice-service.js) Web Speech API
- 3. (src/components/onboarding/) User onboarding flow
- 4. (styles/responsive/mobile.css) Mobile optimization

Key Features by Folder

Offline-First Architecture:

- (workers/sync-worker.js) Background sync
- (src/services/offline-storage.js) Local data management
- public/sw.js Service worker for PWA

Al Agent System:

- (src/ai/agent-behaviors.js) Autonomous Al behaviors
- (src/ai/pattern-detection.js) Spending pattern analysis
- (src/components/ai-coach/) Al interaction components

Screenshot OCR:

- (src/services/ocr-service.js) Tesseract.js wrapper
- (examples/sample-screenshots/) Test images for development
- (workers/ocr-worker.js) Process images in background

Hackathon Ready:

- (hackathon/) folder contains all presentation materials
- (examples/) folder has demo data ready to go
- (tools/) folder helps with quick testing and setup

This structure supports the complete free tech stack (Vanilla JS + Supabase + Gemini + Tesseract.js + Web Speech API + Vercel) and is optimized for the 48-hour hackathon timeline while maintaining scalability for post-hackathon development.