**Modular Structure**

Input Handling Module

* Function to handle file uploads (CV documents)
* Functions to process and validate user inputs (skills, description, age range, gender)

CV Processing Module

* Text extraction from various file formats (PDF, DOCX, etc.)
* Information parsing and extraction (skills, contact info, etc.)

Matching Algorithm Module

* Implementation of the matching logic
* Scoring and ranking functions

Database Module

* Database connection and management
* CRUD operations for CV data

User Interface Module

* Main application interface
* Results display
* Database view

Dashboard Module

* Data aggregation for dashboard
* Visualization generation

Utility Module

* Helper functions used across other modules
* Logging and error handling

Security Module

* User authentication and authorization
* Data encryption and protection

API Module (if needed)

* Endpoints for frontend-backend communication

Testing Module

* Unit tests for individual functions
* Integration tests for modules
* End-to-end tests for the complete application