1. Initial Setup (Start here):

python

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*# 1. Set up your project environment*

- Create a new project directory

- Set up a virtual environment

- Install required packages:

pip install selenium pandas configparser webdriver\_manager

1. Create Project Structure:

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job\_application\_bot/

├── config.ini # Configuration file

├── main.py # Main script

├── requirements.txt # Dependencies

└── logs/ # Directory for log files

1. Development Steps in Order:

A. Basic Setup Phase:

1. Create the basic class structure and initialization
   * Set up logging
   * Configure webdriver
   * Load configuration
2. Create the configuration file (config.ini)
   * Add login credentials
   * Define skills and requirements
   * Set up application form defaults

B. Core Functionality Phase: 3. Implement portal login functionality

* Handle authentication
* Add error handling
* Add logging

1. Create job search functionality
   * Implement search parameters
   * Handle search results
   * Add pagination handling
2. Develop job filtering logic
   * Parse job descriptions
   * Match required skills
   * Score preferred skills

C. Application Phase: 6. Build job application handler

* Click through to job details
* Extract job information
* Handle apply button clicks

1. Create application form handler
   * Identify form fields
   * Fill in standard information
   * Handle different form types

D. Monitoring & Reporting Phase: 8. Add tracking functionality

* Count applications
* Track success/failure
* Monitor rate limits

1. Implement reporting
   * Generate statistics
   * Create CSV reports
   * Log important events

Start with minimal functionality for each component. For example:

1. First just make it log in successfully
2. Then make it search and list jobs
3. Then add the filtering
4. Finally add the application submission