**AI App Retrospective Template**

### 1. Overview Summary

* App Name: CAD Model Scraping
* Description: Backend system to collect 3D CAD models from various sources, aiming to streamline model discovery using scraping and search.
* Primary Use Case / Problem Solved: Simplifies the process of finding 3D printable models across multiple platforms by automating the data retrieval.
* Platforms Used (AI tools, IDEs, etc.): VS Code, ChatGPT (for guidance)
* Languages and Tools: Python, FastAPI, BeautifulSoup, mock S3 storage (local setup)

## 2. What Worked Well

* - Finalized the overall structure and tools early on
* FastAPI was easy to get started with once basics were understood

## 3. What Didn’t Work / Challenges - Some initial confusion around JWT setup and token validation Took time to align on project flow and how to modularize things.

## 4. Key Learnings

## Got familiar with Python backend development

## Understood FastAPI structure, especially routes and auth logic

### 5. Code Notes

* Code Location (e.g., GitHub link): Yet to push the full structure, still working locally
* Key Files / Functions: main.py, product.py, scrapper.py, secure.py, upload.py
* Reusable Components: JWT auth setup, login/signup endpoints

### 6. Prompts and AI Interactions

* Effective Prompts: - Used ChatGPT to get started with FastAPI routing and auth setup  
  - Got clarity on how to hash passwords and verify tokens properly
* Problematic Prompts and Fixes: - Some prompts gave partial implementations, had to stitch things together manually
* Observations on AI Behavior: - AI was helpful for quick bootstrapping, but needed tweaking for real use cases

### 7. Team Reflections

* Individual or Group Takeaways: - I mostly worked on backend structure and learning FastAPI basics , Parin started looking into React app and Likhin has started R&D about scrapping
* Team Dynamics and Collaboration Insights: - Collaborated briefly in early setup. Most of the backend work was done individually.
* Suggestions for Next Sprint:

- Start writing actual scraping logic  
- Add task queue and integrate with mock S3 storage

### 8. Next Steps or Follow-Up Ideas

* Should this app be revisited? Yes, especially if scraping turns out successful
* Spin-off or related ideas: - Maybe build a search UI later or add ML-based filtering
* Improvements for Future Work: - Better time planning  
  - Split responsibilities early

### 9. Screenshots or Demos :

Not ready yet.

### 10. Rating and Fun Factor

* Overall Usefulness (1-10): 7
* Creativity or Innovation Score (1-10): 8
* Fun Factor (1-10): 7
* Would You Revisit This Idea? Yes