PROJECT PROGESS REPORT (Week 6)

"Caffeine Overflow's - Ai driven virtual try-on system in E-commerce"

Junior Design

CSE299

Semester: Summer 2024
Section: 15

North South University

Department of Electrical & Computer Engineering

Submitted By

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Lecture

Project Overview:

Our project focuses on developing an AI-driven virtual try-on system that leverages e-commerce technologies, augmented reality (AR), and 3D modeling to enhance online shopping experiences. This system will allow users to try on clothing virtually, making it easier to make purchasing decisions while reducing product returns.

Progress Made in Week 6:

3D Model Generation and API Integration:

- Significant progress was made in enhancing the accuracy of 3D model generation, crucial for creating realistic clothing try-on visuals. Refinements to the model improved alignment and quality.
- Work began on developing a REST API to integrate the 3D models into the website, allowing seamless access for frontend use.
- A range of errors arose during the API development, creating integration challenges with the website.

Admin and Customer Interface Enhancements:

- Completed the implementation of the UpdateProduct functionality in the admin panel and added features like admin login, user profile, customer-facing pages, and an order confirmation page.
- These updates provide a cohesive user experience within the e-commerce flow.
- Persistent errors were encountered, requiring continuous troubleshooting.

Challenges & Areas Yet to Be Completed:

- Persistent issues and errors have affected the progress of both 3D model generation and the API, as well as the admin panel's frontend integration.
- Additional time is needed to resolve these issues fully, but once addressed, the project will be ready for demonstration.

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Contribution:

Aporbo	Tasfia
Tried to enhancing the accuracy of 3D model generation	Completed the implementation of the UpdateProduct functionality in the admin panel
creating realistic clothing try-on visuals.	Added features like admin login, user profile, customer-facing pages, and an order confirmation page
developied a REST API to integrate the 3D models into the website	Updated styles of web
Bug fixing	Bug fixing

Conclusion:

Week 6 involved intensive work on improving 3D model quality, integrating models via REST API, and enhancing admin and user interfaces. Both team members encountered multiple errors, which delayed progress. Once resolved, the project will be ready for a comprehensive demo