

LUXE CASTLE
Virtual Fitting Room For Clothing Website By Augmented Reality
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Abstract

This document provides key information about the development of an AR-based clothing try-on website, aimed at enhancing the user shopping experience through interactive technology. The project's main objective is to deliver a functional and reliable software solution that meets modern e-commerce demands. The development is divided into two primary components: creating an intuitive, user-friendly front-end interface and building a robust web-service API using Node.js and Express.js. The front end is developed using HTML, CSS, and JavaScript to ensure responsiveness and ease of use, allowing users to browse products and virtually try on clothing using their webcam. The back-end API manages product data, user interactions, and integrates with MongoDB for efficient and secure data handling. The augmented reality try-on feature is implemented using pose estimation models to detect body joints and overlay garments accurately. The complete source code for the AR Try-On Clothing Website can be found on GitHub:

https://github.com/chinjiasin/FYP_LuxeCastle/tree/update-fyp

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