# Graduation Design Project Proposal Form

**Project Title:  Clothing Recommendation Platform**

**Professor(s) Name(s):** Dr. Ahmed Hamed

**Number of Students:** Nine

## Students Qualifications

1. Willing to get involved in extensive experimental work.
2. Should have completed their graduation project.

## Statement of Problem

After the Corona pandemic, everyone began online shopping and buying their needs through websites or applications that display all the products they need, including clothes. Due to increasing the size of the market, each brand started to build its online platform to show case its products which made it more time consuming for customers to find clothes that match their preferences. In this project, we will work on designing and building an online platform that has multiple brands that the customer needs with the addition of a 3D model feature so that the customer can see the clothes on a 3D model.

## Objectives
1. Helping the customer find all he needs on one platform.
2. Providing recommendations for clothes to save his time in searching.
3. Make him imagine and coordinate clothes on a 3D model.
4. Help customer to move all the pieces that he loves to a designated place so that he can return to them at any time without searching again for it

## Technical Approach

- UI&UX design for website and mobile application
- Develop a website using React.js for Front-End and Node.js with express for Back-End
- Develop a mobile application by Flutter
- Design database with Mongo DB
- Develop Machine Learning Model by python and TensorFlow Recommender
- Making a 3D model with Blender, a marvelous designer, substance painter, substance designer

## Expected Deliverables

- A working MVP of a PAVANE website or application