**Project Proposal: development of database-based system with Django**

1. **Topic**:

Implementation of an online marketplace for buying and selling new and secondhand goods among SUTD.

1. **Description**:

Create a web application with a database backend using Django that implements features described below. The server can run both on local machine and online.

1. **Features to be included (equivalent to the original topic):**
   1. Registration: same as the book store. (new features to be added if applicable, profile picture etc.)
   2. Ordering: After registration, a user can order goods that are available on the platform
   3. Selling: After registration, a user can post his/her goods onto the platform, with specified name, price and description.
   4. User record: upon user demand, following info will be printed:
      1. His/her account information
      2. His/her full history of orders
      3. His/her full history of feedbacks
      4. List of all the feedbacks he/she ranked with respect to usefulness
   5. Feedback recordings: Users can rate or leave a short comment on a seller’ public profile after he/she complete a deal
   6. Comment ratings: users can access a seller’s public profile and rate a comment according to this seller
   7. Goods browsing: Users may search for goods by typing keywords into the search bar or search for sellers by typing their user names, results are sorted by relevance by default. A user can also specify that the results are to be sorted by price or average rating of the seller.
   8. Goods recommendation: We will implement Machine Learning Algorithms to build a recommender system.