Smart Shopping User Manual

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1. Introduction - Android App to help user enhance their shopping for furnitures. This App allows user to do the following:
    1. Login via registered email or Twitter credentials.
    2. Shop using text or image analysis.
    3. View the trends in the field of furnitures based on the collected tweets.

4. Give recommendations to the user based on their calculated BMI.
5. Allows User to share the recommendations and suggestions on social media such as facebook, instagram, whatsapp etc.
6. View the product in AR (augmented reality), this helps the User to check-out the product in any desired location wherever they place the marker.

2. How to use the system with Screen dumps -
   1. Installation :
      (a) Download the 'Smart Shopping' app.
      (b) If new to the app, register using email ID or use an existing twitter credential.
      (c) Log-in to the shopping app.

   2. App Usage :
      1. The default home page is the image analysis page, which the user can skip as per requirement.
         (a) If the User skips this page, they are redirected to the Shopping activity.
         (b) If the User is interested, they can click and image at run-time for image analysis.
         (c) Alternately, the user can select an existing image from the gallery for analysis.
         (d) The image analysis is done on the selected image and the description of the analysis is displayed to the User at the bottom of the scree.
      2. Shopping page
      3. Trends page
      4. Suggestions page - BMI and social media
      5. AR activity

3. Error recognition and handling -

1. Once the User enters the AR mode to view any particular product, they cannot re-direct back to the the shopping app. At this time the User can quit the app and re-open it to use the shopping app again.
2. The Image analysis returns the analysis report related to a fixed data set from the furnitures field, if the image selected for analysis does not contain any furniture item, then the analysis report will be blank. In this case the User can modify or edit the search text as per their needs.

4. Bugs and Deficiencies -
   1. App is not platform dependent, works only on android devices.
   2. The password reset option is not provided to the user.
   3. While registering user, we don't confirm the password, so if the user needs to type carefully at the registration.
   4. The trend analysis is based on the already collected twitter data and not done at run-time.
   5. The shopping API returns only one image per product.
   6. BMI part again requires user registration.
   7. User cannot re-direct to the shopping app from the AR view.
   8. Log-out option is only provided at the home page of the app.