

# Lab6-IC

Testing is a critical component of software development and is used to ensure that the software is functioning as expected. Testing is typically applied throughout the software development life cycle and during maintenance and upgrades to ensure that changes to the software do not negatively impact existing functionality. Testing is useful because it helps to identify defects, errors in the software.

My application employs the following features

- **Fragrance Search:** Users should be able to search for a particular fragrance by name, brand, or category
- **Fragrance Details:** The application should provide detailed information about each fragrance, including the scent profile, notes
- **Reviews and Ratings:** Users should be able to rate and review fragrances
- **Wish List:** Users should be able to save their favorite fragrances to a wish list for future reference

One of the features that could be tested using unit testing is the fragrance search feature in the mobile application. This feature allows users to search for a particular fragrance by name, brand, or category. Unit testing for this feature would involve testing the search functionality with various inputs and verifying that the correct results are returned. This could include testing for case sensitivity, partial matches, and edge cases such as empty search queries.

When integrating modules for my mobile application, several modules need to be tested, including the fragrance search, fragrance details, reviews and ratings, recommendations, and wish list features. Integration testing for these modules would involve testing how they interact with each other and verifying that they function correctly as a cohesive unit. A suitable integration strategy for testing these modules could be the bottom-up integration strategy, where the lower-level modules are tested first before integrating with higher-level modules.

For my application the following scenarios need to be tested during system testing to ensure that the application meets user needs and functions correctly: Search Scenario, Fragrance Details Scenario, Reviews and Ratings Scenario, Wish List Scenario.