

IT3176 Practical Assignment

Objectives:

In this assignment, you will work in a team of 3-4 members to develop an Android application.

Deliverables:

1. Application (25% of ICA)
 - Source codes for the entire project folder
 - Word document to describe the application
2. Presentation on application (5% of ICA)

Deadlines

- **End of week 12, 6th of July, to submit entire application (25%)**
 - **Students must submit the completed application**
- **Week 13 to present application to tutor (5%)**
 - **Presentation on what the application can do.**

Instructions:

- Project is broken down to different categories
- Each member is to do only 1 category of the application.
- Zip up the above deliverables and name it after your team leader's admin no/name.
Submission should be **NO LATER** than **5pm** on the date mentioned above. Submit the zip file to **Blackboard** under the Assignment folder placed in the Lab class.
- Marks will be deducted for the following conditions.
 - Applications that cannot run upon first time installation
 - Late submissions

Assignment Theme: Mobile Point of Sale application
Scenario:

John smith is the Chief Technical Officer, CTO, of iSellCrazyItems. He wish to create an Android application to facilitate his sales team as they move around the world to sell their products. The application should have the following components

- Inventory
- Sales order
- Customer
- Application holder

Requirement List:

Application settings		
Inventory	Basic	Creation of items into a local database Retrieval of items from a local database Update of items into a local database
	Intermediate	Search and display of items in database
	Advance	Sync local database with an online items database
Sales order	Basic	Able to select items from the local database and allow user to “purchase” the items. Add sales into a local database Retrieve past transaction Print sales item into an “receipt” after purchase
	Intermediate	Update daily sales into an online database Retrieve and tabulate user’s past sales
	Advance	Based on current sales location, convert sales made overseas to SGD. E.g. If the purchase is made in Australia, all currency will be converted from AUD to SGD.
Customer	Basic	Creation of customer data into a local database Retrieval of customer data from a local database Update of customer data into a local database

	Intermediate	Allow customers to reserve out of stocked items
	Advance	Separate application for customers to order items via a web service.
Application holder	Basic	Local login check Central navigation page for the above Settings page to provide the following <ul style="list-style-type: none"> • Change of password • Interval time to synchronize database • Application theme
	Intermediate	Convert currency between time zones / countries
	Advance	Login to an online server

Marks breakdown:
Presentation

Group	Individual
30%	70%

Application *

Completion of features			Creativity	Usability	Exception handling	Documentation	Bonus**
Basic	Intermediate	Advance					
35%	20%	10%	10%	10%	10%	5%	10%