



Cyprus International University

Faculty of Engineering

CMPE425

>2016-17 Fall<

Term Project

Due Date: 11th January 2017 at 12:00 (GMT +03:00)

Submission: Upload your Term Project source files to Moodle. (<http://moodle.ciu.edu.tr>) Compress (zip) all your folder and files before submission.

NO EMAIL SUBMISSION WILL BE ACCEPTED.

Demonstrations: 11/01/2017

Due date for group member names is 28 .12. 2016

I. General Principles

- Project will be done in teams. At most **THREE** students can be in a project group.
- No Reports!
- Any sort of cheating and/or plagiarism will be punished by failure from the course and a report to the disciplinary committee of the University.
- Project concerns Android Application development. Outcome should be demonstrated as an Android application.
- Try to make your Activities to look professional.
- Due date of the project is **strict** there will be no postponing of the project. Get your projects ready before the due date.
- If you do not submit or do not present your project, you get NA.
- Developing Web Services is **NOT** a part of this project.

II. Term Project Details

Android Client for a Wholesaler

You need to prepare an application that will provide a mobile client for a wholesaler.

- Display **Toast Messages** when new Demand has been added or removed from the SQLite.
- Pay attention to **Orientation**.
- Use the following functional Web Services for testing.

Menu Items as an XML

[menuItems.xml](#) It Provides the items of Menu.

```
<menu>
    <m_item>Products</m_item>
    <m_item>Demand List</m_item>
    <m_item>Log Off</m_item>
</menu>
```

Check Login, returns JSON Message

[checkLogin.php?UN=umut&Pass=123](#) It checks the username(UN) and password(Pass) and returns one of the following JSON messages:

```
[{"correct": "YES", "message": "Welcome"}]
```

```
[{"correct": "NO", "message": "Wrong User Name and/or Password"}]
```

Alternative User Names(UN) you may use is umut,ali, john and sebastian. Password for all users is **123**

User Photo

[img/umut.jpg](#) img/[UserName].jpg is holding the photo of the user.

Product Search as a JSON Message

[productSearch.php?P=bread](#) It returns the search results of provided product(P) as JSON. Link display account information for Product **bread**.

```
[{"P": "xyz bread",  
  "Pid": "1"},  
{ "P": "yxz bread",  
  "Pid": "2"},  
{ "P": "wxz bread",  
  "Pid": "3"}  
]
```

Product Information as a JSON Message

[productInfo.php?Pid=2](#) It returns the product information of provided product Id(Pid) as JSON. Link display product information for Pid **2**.

```
[{"Pid": "2",  
  "P": "yxz bread",  
  "Brand": "yxz bakery"}  
]
```

III. Grading:

User Friendliness and professionalism	10
Authorization	10
Populating Drawer Menu From XML	10
Displaying the photo of user at Drawer Menu	5
Populating Search results From JSON	15
Populating Product Information From JSON	10
Displaying Demand List from SQLite	10
Removing selected Demand from SQLite	10
Adding new Product Demand to SQLite	10
Displaying Toast Message of at adding and Removing Demands	6
Orientation Caring	4
Total	100

Sketch of the Application is provided on the following Page

Login

User Name

Password

NO

checkLogin.php?UN= & Pass=

Yes

Drawer Menu

Products
Demand List

Log Off → Quit App.

menuItems.xml

Search
Name

Results

xyz bread
y x z, bread
w x z bread

JSON

productSearch.php?Ps=

Product Info.php=Pid=
JSON

Demand List

Product Name	Quantity
xyz Bread	10
xw z cheese	5
zy x milk	20
<input type="button" value="Remove"/>	<input type="button" value="Close"/>

Remove From SQLite

Wholesaler Client App

Add to SQLite

Product Info

Product Name _____
Brand _____
Quantity _____