

Software Engineering I  
 CS251

**Easily Buy, Sell, Exchange Products web-application**2014

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| **TA:** Catherine Bedrossian  **Dr.:** Mohamed El\_Ramly   |  | | --- | | Git-hub link : https://github.com/MahmoudHadad/SW-Project.git | |  |  |

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# Team

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# Document Purpose and Audience

View system description and depicts the overall system decomposition also provide fully detailed class diagrams, sequence diagrams, and physically entity relation diagram.

It fully display and explain every single function to the customer and other developers work on the current project.

# System Models

## System Decomposition

## Class diagrams

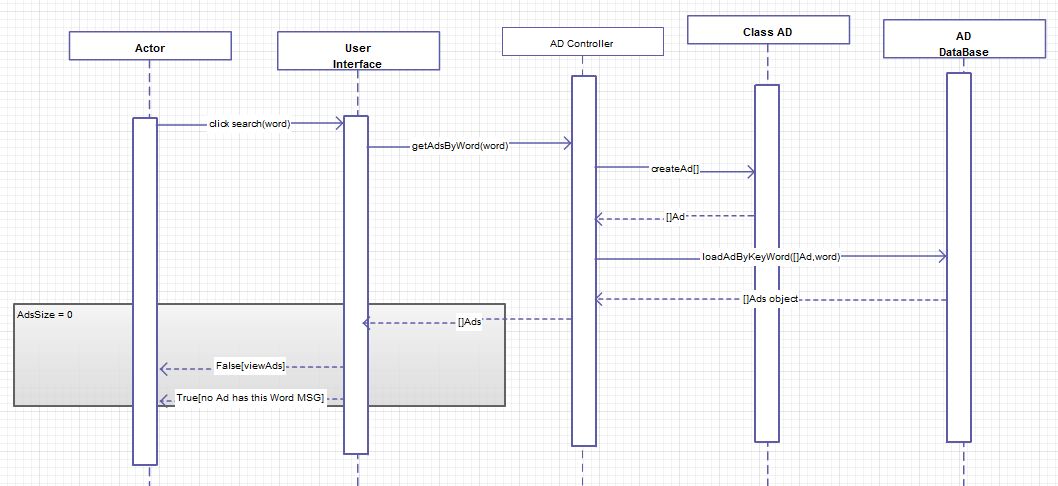
More obvious diagram at: <http://creately.com/diagram/i3c4sco3/bAH2MuGcJBs3rtoaItagtZmf98%3D>

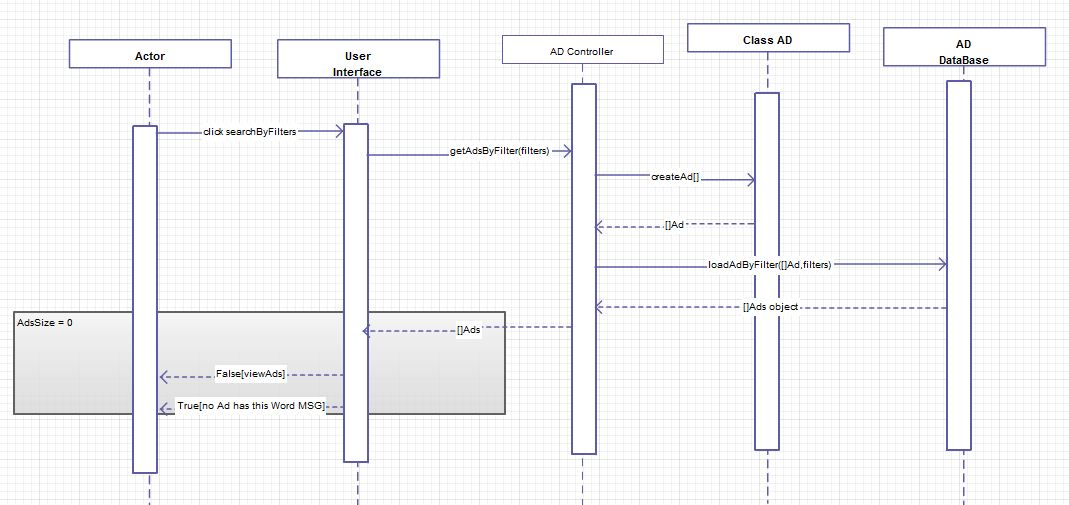
|  |  |  |
| --- | --- | --- |
| Class ID | Class Name | Subsystem ID |
| 1 | userInterface | **Functions**  +UserObj : UserController  +ADListObj : ADListController  +ADObj : ADController |
| 2 | userController | **Functions**  +Create(UserID):void  +Destroy(UserID):void  +UpdatePersInfo(UserID):void  +GetPersInfo(UserID):void  +LogIn():void  +LogOut():void |
| 3 | ADListController | **Functions**  +Create(ADList):void  +Destroy(ADList):void  +Rename(ADList,String):void  +ViewLists(UserID):void  +AddAD(ADList,AD):void |
| 4 | ADController | **Functions**  +Create(ADId):void  +Destroy(ADId):void  +GetADInf(UserID):void  +GetPost(UserID,ADId):void |
| 5 | ADList | **Attributes**  - ArrayList: AD[ ]  - Name: String  - ID: Integer  - UserID: Integer  **Functions**  + Setters & getters |
| 6 | ADListDB | **Functions**  +Load(ADList):boolean  +Store(ID):ADList  +Remove(ID):void  +Update(ID,name):boolean |
| 7 | userDB | **Functions**  +Load(User):boolean  +Store(ID):User  +Remove(ID):void  +Update(ID,name):boolean |
| 8 | User | **Attributes**  - Name: String  - E-mail: String  - Password: Integer  - faceBook: undefined  -logged-in: boolean  -AdList: ADList  -ID: Integer  **Functions**  + Setters & getters |
| 9 | AD | **Attributes**  - Title : String  - image : undefined  - Description : String  - ADid : Integer  - UserID : Integer  - CategoryID : Integer  - SubCategoryID : Integer  - UserName : String  - UserMobNumber : Integer  - Note : String  **Functions**  + Setters & getters |
| 10 | AD\_DB | Functions+Load(AD):boolean+Store(ADId):AD+Remove(ADI):void+Update(ADId):boolean |
| 11 | category | Attributes- Name: String- ID: String- Describtion: StringFunctions+ Setters & getters |
| 12 | Car | Attributes- Price: Integers- noOfKioMeters: Integers- EngineType: String-Model: StingFunctions+ Setters & getters |
| 13 | Home | Attributes- Price: Integers- Area: String-Address: String-Type: Sting-noOfRooms: Integer-noOfToilets: IntegerFunctions+ Setters & getters |
| 14 | JopOffers | Attributes-Salary: Integer-YearsOfExperience: Integers-JopType: String-RequiredSkills: StringFunctions+ Setters & getters |
| 15 | Honda | Attributes-CategoryID: IntegerFunctions+ Setters & getters |
| 16 | Class Opel | Attributes- CategoryID: IntegersFunctions+ Setters & getters |
| 17 | Class IT | Attributes-CategoryID: IntegerFunctions+ Setters & getters |
| 18 | Accounting | Attributes-CategoryID: IntegerFunctions+ Setters & getters |
| 19 | Mass communication | Attributes-CategoryID: IntegerFunctions+ Setters & getters |

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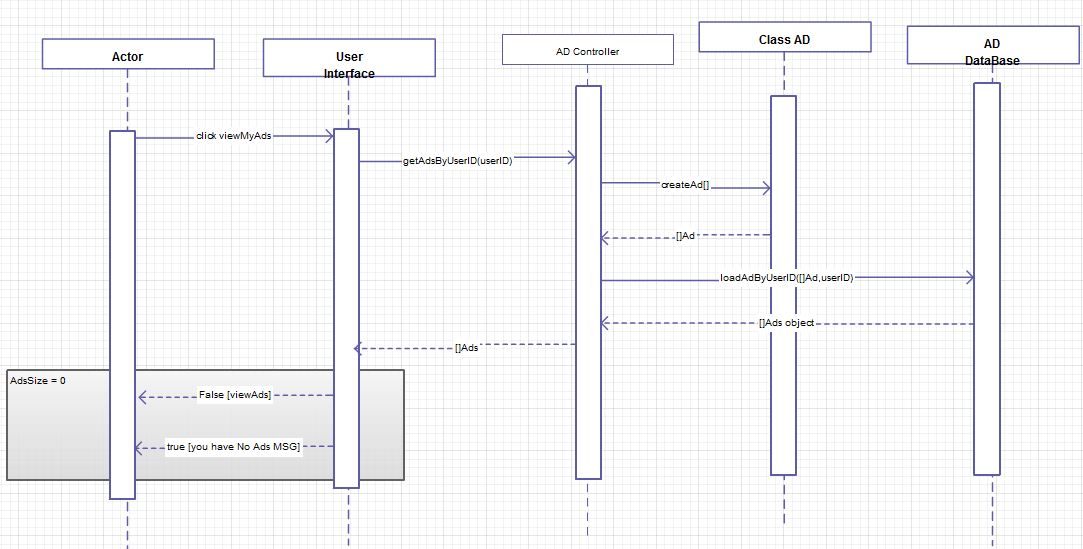
## Sequence diagrams

# Create an Ad

Search by key word

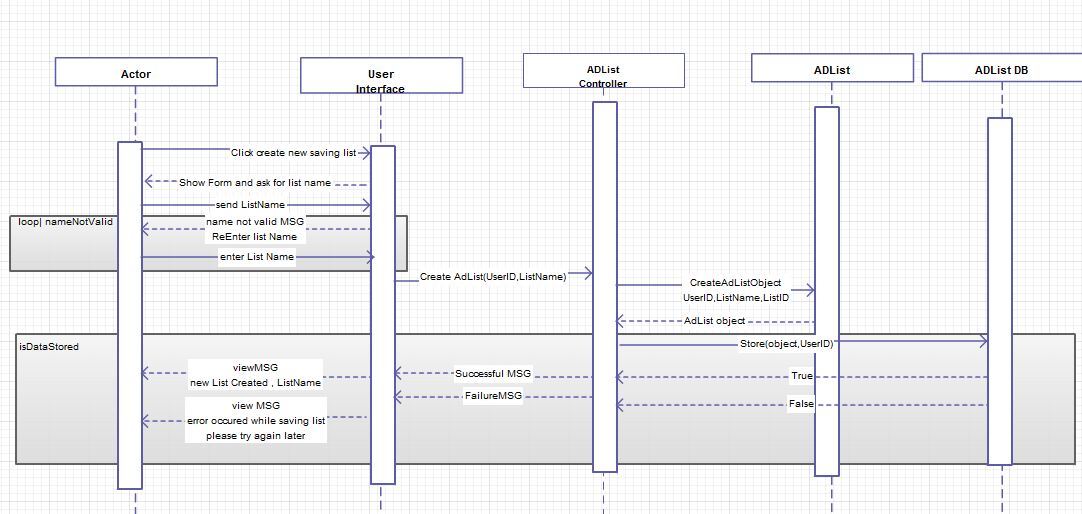
Search by Filters

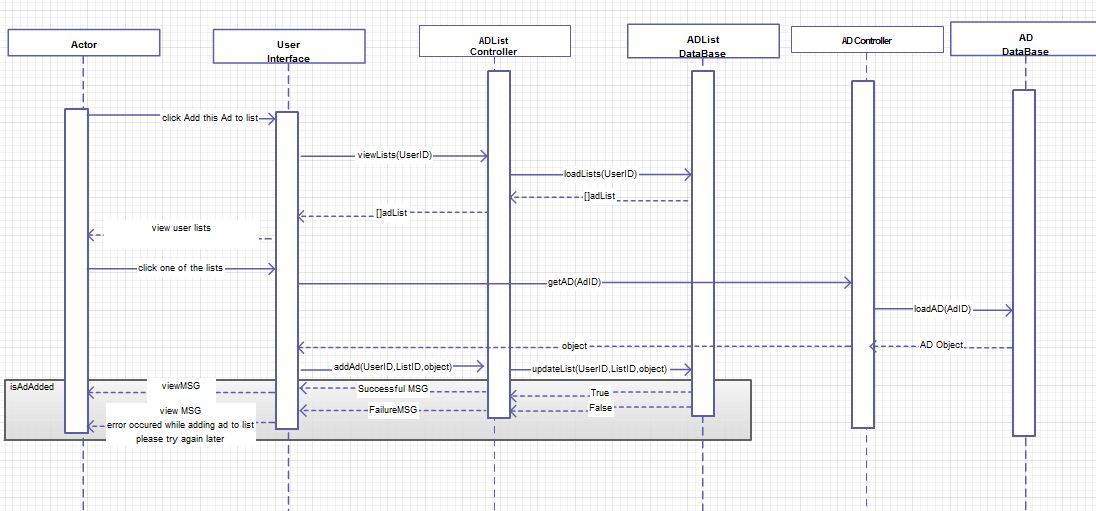
View my Ads

The difference between last two functions that the function searchByFilters can be used with many various methods (category – subcategory - place) where we can use each one as single filter or use them mixed together giving more accuracy.

E.g.: 1- search by category, subcategory and place 2- search by place only 3- search by category and place

LoadAdByFilters: search the database for the Ad, identify it and returns array of common Ads depending on the search filters

Create saving list

Adding Ad to a saving list

## Physical Entity-Relationship Diagram

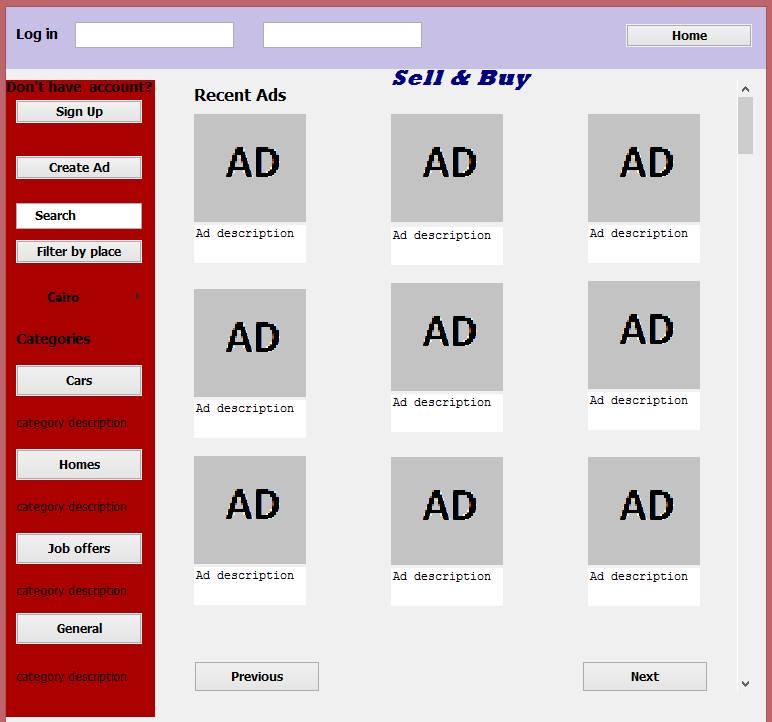
Notice on database diagram

During using the data base we well save the data of each subacategory in its category giving each subcategory an id to easily identifying and using.

E.g.:

Honda subcategory ID: 1

Opel subcategory ID: 2

**System Screen Shoots:**

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# Ownership Report

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| --- | --- |
| ***Item*** | **Owners** |
| *System Decomposition* | *Mahmoud Mohamed Hadad* |
| Class diagrams | Ahmed Sayed Eid |
| Sequence diagrams | *Sherif Mohamed Farouk* |
| Physical Entity-Relationship Diagram | *Ahmed Mohamed Fekry* |
| System Screen Shoots | *Mahmoud Mohamed Hadad* |