**Test Phase Problem of**

**House Map Designer**

**Problem Statement:**

You are required to develop a desktop application that should fulfill the requirements given below.

* A login window to open your application.
* Once user is logged in, application will show a new window having a content area and box field control Panel.
* User of application should be able to grab box field and place on content area of window. Doing this should create a box of any height and width.
* User should be able to place more than one boxes on content area.
* After placing the box in content area, user should be able to move it anywhere in content area with the help of mouse grab.
* User should be able to select a box placed into content area and change its dimensions (height and width). The size of box should be changed according to size provided by user.
* User should be able to change the title of each box placed on content area.
* The dimensions of box also show inside the box below top edge.
* Sample design of main window, control panel, content area and box field are showing in diagram given below.

**Height: 3 Width: 5**

**Title of Box**

**Box Field Control Panel**

**Content Area**

Please note, you are not required to use database for test phase application. Use any fixed username and password to open your application.

**Helping Material:**

Few links are being shared with you as helping material. These will give you a good start for test phase application. You can use these tutorials or any other tutorials of your choice.

<https://www.youtube.com/watch?v=Rytt-a2cTJA>

<https://www.codeproject.com/Articles/20483/Drag-and-Drop-Windows-Form-Controls-Design-UI-at-R>

<https://www.codeproject.com/Tips/709121/Move-and-Resize-Controls-on-a-Form-at-Runtime-With>

For any query related to test phase problem contact me on

**Skype:** ahmad\_lodhi

**Email:** [ahmadlodhi@vu.edu.pk](mailto:ahmadlodhi@vu.edu.pk)

**Best of Luck!**