* **Functional Requirements**

**Advanced home plan editing plugin – R01**

This plugin can assist interior designer to resize selected objects in the plan, edit room points in a dialog and join two walls in the home. It enable users to do the corresponding actions for selected objects, those are not in the original version of this system. This plugin consists of the following sub-functions to be completed, and this improvement would be integrated into current version of the system.

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| ID | Description |
| R01-01 | User is able to flip an object by horizontal or vertical |
| R01-02 | User is able to resize an object in the home plan with any given size and aspect ratio |
| R01-03 | User is able to move an object to any given location in the 2d region |
| R01-04 | User is able to rotate an object by any given degree |

* Release control

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| Release version for R01 | Description | Functional Requirements |
| 1.0.1 | The system is able to do flipping of an object by horizontal or vertical by two checkboxes in “Flip” function | R01-01 |
| 1.0.2 | The system is able to resize an object by inputting any given size in “cm” or “%” and an aspect ratio | R01-02 |
| 1.0.3 | The system is able to move an object to any given location with given horizontal and vertical distance | R01-03 |
| 1.0.4 | The system is able to rotate an object by entering any degree between 0 and 360 | R01-04 |
| 1.1 | The System should integrate above sub-functions together and compatible with current version | R01 |

* Test activity

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| Type | Test content |
| White box test/unit test | Host by developers and they are responsible for writing testing program for individual unit |
| Daily integration/regression test | Compatible testing, ensuring new plugin woks fine with current |
| Block box test/system test | Host by test engineers and they are responsible for writing testing scripts of each new function in the staging test environment. |