Price: Sq. ft.:   Bedrooms: Bathrooms:

3.0 M — 1,500,000   5,000 — 3,500   5 — 4   5 — 4

1.0 M — 850,000   3,000 — 2,500   3   3 — 2.5

250 K   1,000   1 — 2   1

View: ☐ Seaport   ☐ Downtown   ☐ Charlestown

Seaport

Charlestown

Downtown

Unit	Beds	Baths	Sq. ft.	Views	Price	Not interested
Building 4						
☑ 202	3	2.5	2,750	Charlestown	$ 1,150,000	☐
Building 2						
Floor 2						
☐ 208	2	2.5	2,550	Downtown (p) Seaport (p)	$ 950,000	☐
☑ 202	3	2.5	2,750	Charlestown	$ 1,250,000	☐
Floor 3						
☐ 301	3	3	3,450	Downtown Charlestown	$ 1,350,000	☒
☑ 302	3	2.5	2,750	Charlestown	$ 1,550,000	☐
☑ 308	3	2.5	2,750	Downtown (p) Seaport (p)	$ 1,750,000	☐

Rotate   Rotate

Building | Floor 1 [6] | **Floor 2** [1][2] | Floor 3 [2][2] | Floor 4 [2] | Floor 5 [2]

204   205   206   207   208   209
☐   ☐   ☐   ☐   ☐   ☐

☐   ☑   ☐   ☐   ☐   ☐
203   202   201   200   211   210

Downtown

Rotate   Rotate   Charlestown   Compare Selected

Filter/Main screen.

Content (filter controls should be positioned on the side of the screen closest to the salesperson):

1. View of the entire project—same as the project screen, only smaller (sans the optional help text);
2. Building view:
    a. building orientation must match the orientation of the project and the floor plate;
    b. the three major view directions (Seaport, Downtown, and Charlestown) shown with arrows and text labels;
    c. tabs for the building view (selected by default) and a floor plate for each floor.
3. Floor plate view:
    a. floor plate orientation must match the general orientation of the building and the project; the options here are:
        • (a) an obligue floor plate that matches the orientation of the building exactly and
        • (b) a straight plan-view plate that approximates the building's orientation
    b. units with numbers and checkboxes for adding them to the compare list.
4. Filter controls:
    o bidirectional sliders for price, sq. ft., bedrooms, bathrooms; slider orientation: up/down
    o the number readouts on the sliders double as type-in text fields
    o checkboxes for the three views (Seaport, Downtown, Charlestown) arranged from left to right when looking from the project;

5. Results listing containing units in the currently selected building (that match the filter criteria used previously if the filter has been used in this session). Columns:
   a. unit #, beds, baths, sq. ft., view, price;
   b. Checkmark to add the unit to the compare;
   c. Not interested "x"-box to remove the unit from consideration;

Functionality:
- in the project view:
  o click a building to:
    ▪ view it large next to the project graphic;
    ▪ populate the result set with the building's units, filtered using the current combination of filters, if applicable;
  o optional: drag the view to rotate it into one of 4 predefined/main positions; synchronize the rotation with the building rendering/view (described below);
  o click a skyline view thumbnail to view a beautiful, full-screen city skyline view; this view should have a "close" button to return the user to the previous screen;
- in the building view:
  o hover over the floors to highlight them;
  o click a floor to highlight the floor on the building and scroll the result list to the selected floor;
  o optional:
    ▪ drag the view to rotate it into one of 4 predefined positions (rotation axis = image center); synchronize the rotation with the project rendering/view;
    ▪ when rotating the building, remove the floor highlighting, if any, from the intermediate positions throughout the rotation; restore the highlighting once the building is in one of the 4 main positions;
  o click a floor tab to:
    ▪ display the selected floor plate in the same space as the spinnable building graphic;
    ▪ scroll the result list to the selected floor.
- in the floor plate view:
  o optional: drag the floor plate to rotate it into one of the 4 predefined positions; synchronize with the project view.
  o hover over the unit to highlight it and, optionally, display its essential information in a hoverpopup;
  o click the unit's checkbox to mark/select it for comparison;
  o click the unit itself (anywhere outside the check box) to view its floor plan and views; keep the unit highlighted when the user returns to this screen after viewing the unit's floor plan.

- o if the unit is sold:
  - color it slightly gray and grey the text, therefore reducing the text-to-background contrast;
  - remove hover-highlighting;
  - decision-pending: remove link to floor plan or keep the link to the floor plan "for informational purposes."
- in the filter view:
  - o sliders:
    - when the view first loads:
      - if the filter has not been used during this session, all sliders should be positioned at the extreme ends of their corresponding scales;
      - if the filter has been used during this session, the slider should be positioned where they were last time the filter was used.
    - user can slide the sliders around the scale to apply the constraint, refreshing the result set list onChange; this means that lifting the mouse button is not required to see the new value: the user can drag the slider, monitor the number and release the mouse when the value reaches the desired amount.
    - increments when dragging the sliders; provided there are enough slider pixels (it takes one or ore pixels to change the slider value by the increment), the numbers should increment by the following amounts:
      - Price: $10,000
      - Sq. Ft.: 50
      - Bedrooms: 1
      - Bathrooms: .5
    - type-in number fields:
      - submit the number to the filter when:
        - o the enter key is pressed
        - o the field loses focus (tab key press, click mouse elsewhere on the screen, etc.)
      - validation: don't allow entries that:
        - o are out of range for that slider; if such number is entered, change the number to the nearest number in range and move the slider to indicate the replaced number
      - validation: allow entries that:
        - o don't fall exactly on the increment. In this case, the amount entered (rather than the closes increment) should be used in filtering the results.
      - number formatting:

- o required:
  - separate 000s by commas when the number is displayed (either) after the filter has been applied or as the slider is being dragged;
  - right-align price, sq. ft., and bedrooms numbers inside their boxes;
  - decimal-point align bathrooms;
  - o optional: format the number as it is being typed in via the keyboard;
- o checkboxes:
  - the checkboxes act in the "AND" mode. I.e., selecting two views returns only those units that have *both* of the selected views.
  - refresh the result set list onChange.
- in the result list:
  - o hover over a unit row the in the result list to:
    - highlight it in the list;
    - optional: highlight it in the floor plate view.
  - o click the unit's row to go to the unit's floor plan screen; the unit's row should remain highlighted when the user returns to this screen after viewing the floor plan;
  - o not interested functionality:
    - click the unit's "not interested" x-box to:
      - grey it out in the list;
      - remove it from compare, if it has been previously selected for comparison (clear the compare checkmark).
    - to un-remove, click the unit's x-box, clearing the "x."
  - o place a check mark in the unit's row to add it to compare; these selections are sticky: when a *different* building is selected, these units stay at the top of the result set list, set off by a horizontal rule;
  - o scrollbar:
    - length should be indicative of number of items hidden from view;
    - to scroll:
      - drag the bar;
      - click the area between the bar ends and scrollable space above and/or below it. The edge of the bar should jump to the location clicked with the mouse pointer.
      - optional: roll the mouse wheel
    - scrolling: smooth, pixel-by-pixel (rather than entire row by entire row)