# 3D Orbit MVP Design

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It is your task to make a simplified MVP UX prototype of this new software tool, usable on an iPad Pro. A sound engineer or artist could then freely walk through the actual physical venue space while configuring the ORION system on the iPad. The minimum that this application should allow is:

- It should allow the user to rotate, zoom and pan the venue space.
- It should allow the virtual audio sources to be moved around in 3D space and therefore updating the Soundfield. The user should be able to see where the sound fields "hit the walls".
- It should allow switching a source from "planar" to "point" source (see video).

# UX Approach







Create a Persona, Scenario, master User Journey

Ideation the interactive point, conduct to wireframe

Translate wireframe to interface, generate prototype

## Persona & Scenario



#### Persona:

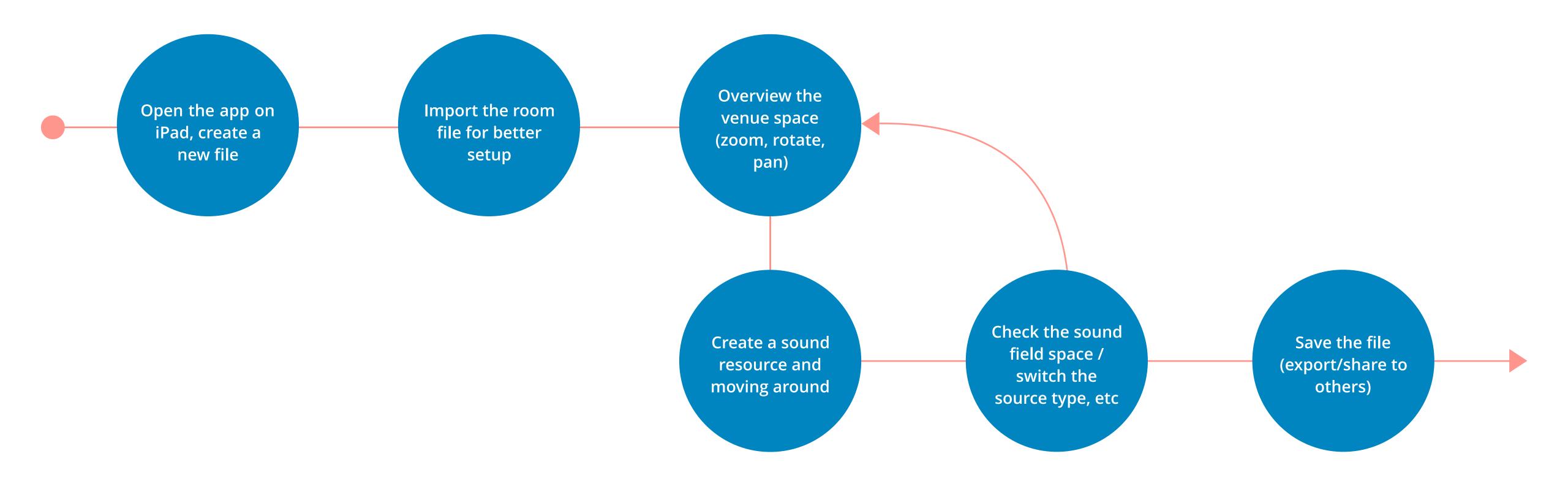
Coco
Female 35
Art Director
Determined, she always prepare
everything before it happens, no
matter how big or trivial.



## Scenario:

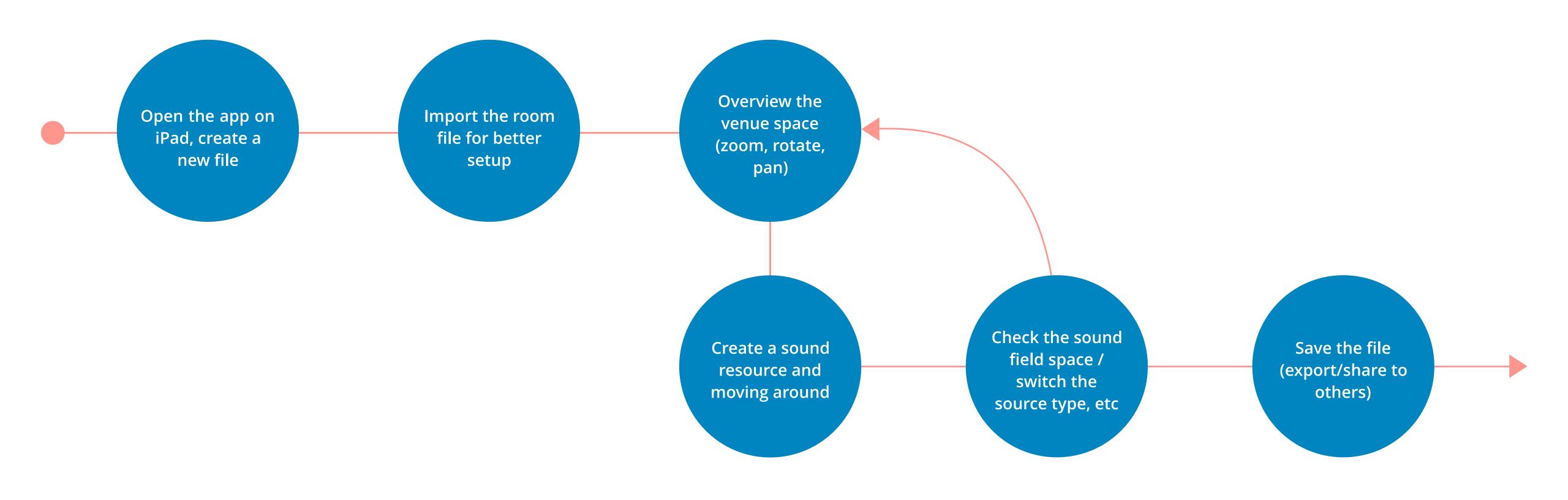
Coco just finished a sound project with her team, thus she wants to set a room for the exhibition with the audiences.

# User Journey



Coco wants to visualize her sound project in the exhibition room first, and share with team to discuss.

# App Design - Main functions



### Create

- Overview and manage the different venue projects
- Add a new venue project

### **Import**

 Import 3D venue model into the project

### Edit

- Check view of the venue
- Add/edit/remove the sound source

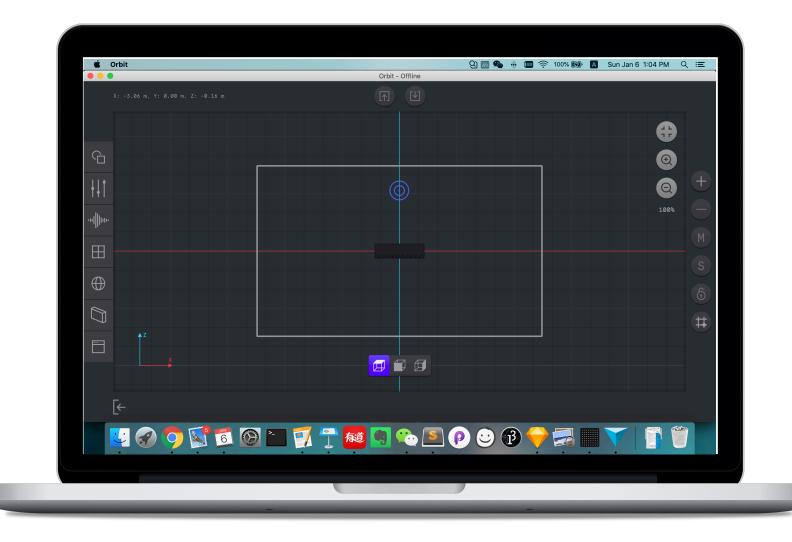
### Preview

• Preview the soundfield in the project

## Save, export, share

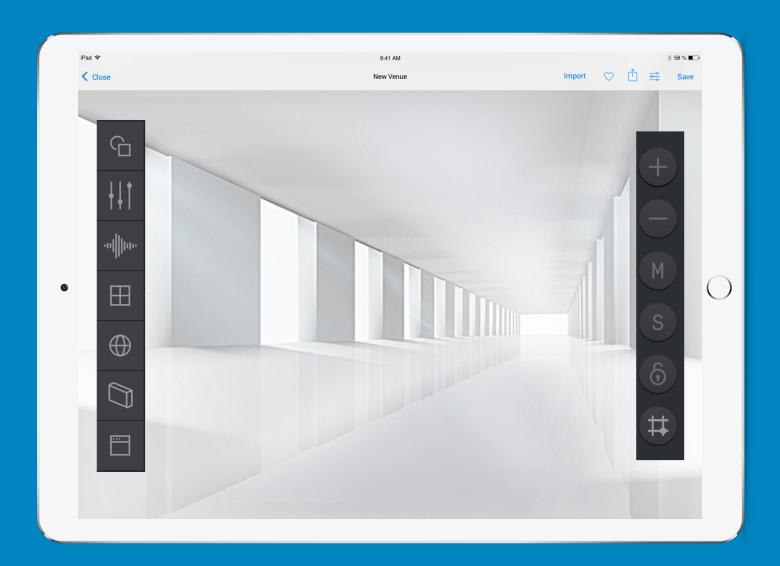
• Save the venue project, export to some formats which could used on other platform and able to share

## Devices



## MAC/PC:

- Interaction medium: Mouse / Trackpad / Keyboard
- Interaction input: Mouse click/scroll, pad movement, keyboard type, etc,.



## iPad Pro:

- Interaction medium: Touch screen
- Interaction input: One-finger tap/hold/swipe, multiple-finger tap/hold/swipe/pinch, etc,.

# Interaction Design

One-finger interaction:

Two-finger interaction:















Tap

Swipe/slide

Press and Hold

Pinch/Splash

**Twist** 

- Trigger button actions:
  - Select venue
  - Add new sound source
  - Select object...

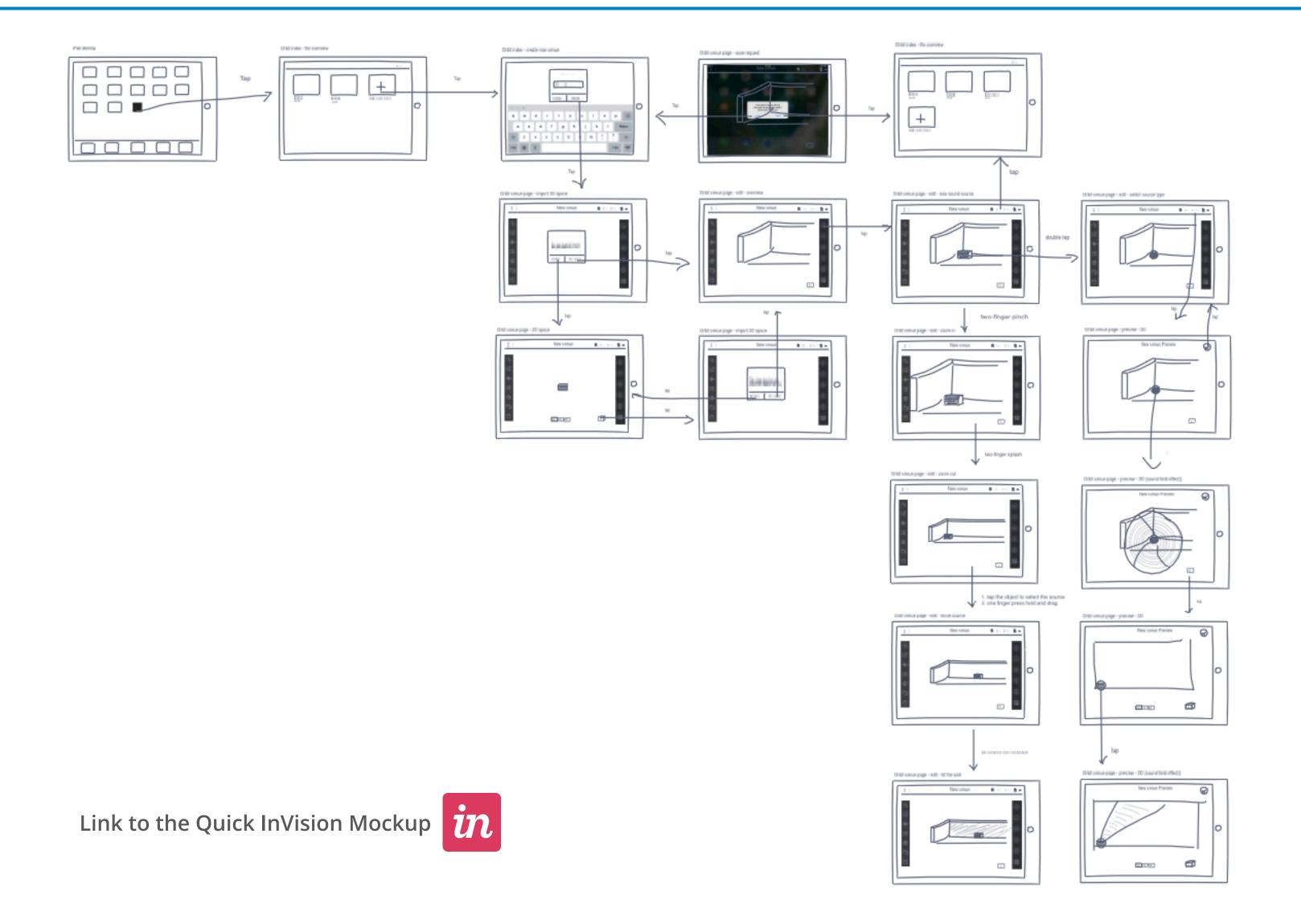
5Wipe/silde

Pan the screen viewMove objects

• Zoom in, zoom out

Rotate view/ object

# App Design - Wireframe



# Mockup - Overview venue space





Overview of venues



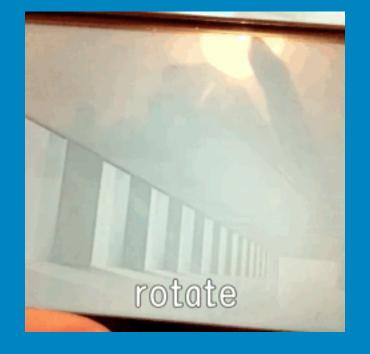
Since there is no iPad around so I made these mockup tests on my iPhone platform.



Zoom the screen with two fingers



Pan the view by one finger swiping



Rotate the view with two-finger twist

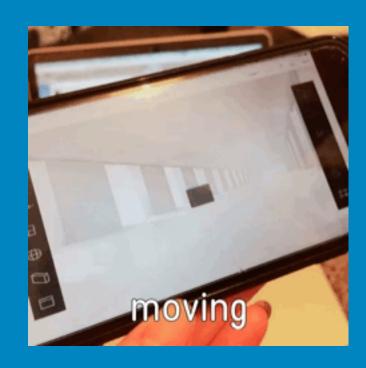


Link to the animated .gif on my website
Password: holoplotlyu

## Mockup - Add a sound source, move, switch



Quickly add a new sound source in the venue with one tap\*



Moving the source object by press and drag on the screen, release the finger when it gets to the position you want to put



Switch the source type with double tap



Link to the animated .gif on my website Password: holoplotlyu

<sup>\*</sup> Actually, the initial idea of this add action was using add button on the screen, and the new source always displays on the center of the screen, but due to the time and my capacity, I simply changed my mockup to do this with one tap click in the venue, this approach can be also used in the use case which can help user to add their source in the preferred position faster.

# Mockup - Hit the wall warning

When the source hit the wall, there will some feedbacks on the screen and the object cannot be moved more.



While moving the object to the wall



Screen feedback to the user



Link to the animated .gif on my website
Password: holoplotlyu

## Future Work

Complete the wireframe, gathering feedback, rework

Improve the UI design for the app, conduct hi-fi prototype

Test with user, analysis and iterate the design

## Some words

- I had fun with this UX assignment a lot since it contains design and development together, and during these days I improved my Unity skills, learnt how to do prototypes for 3D App.
- Some design ideas in the wireframe scratch are not showing in the prototype due to the limited time.
- I simply keep the UI layout as similar as desktop version by considering the user usages and behaviors from previous.
- Also, I have to admit that the Graphic and UI design is not my strength, thus I put it as the following step in the future, this approach I considered as a quick move to complete work this time.

# Thanks for watching, looking forward to the feedback(๑><๑)