

Augmented Reality & Video Service Emerging Technologies

AR Smartphone Project

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AR Smartphone Project

IKEA Catalog

IKEA Catalog

❖ AR Smartphone Project 1

- IKEA Catalog provides an AR 3D placement of furniture in the camera's view



IKEA Catalog

Available at Play Store and App Store

Android Google Play Store:
<https://play.google.com/store/apps/details?id=com.ikea.catalogue.android>

Apple App Store:
<https://itunes.apple.com/us/app/ikea-catalogue/id386592716?mt=8>

IKEA Catalog

❖ Application Main page



IKEA Catalog

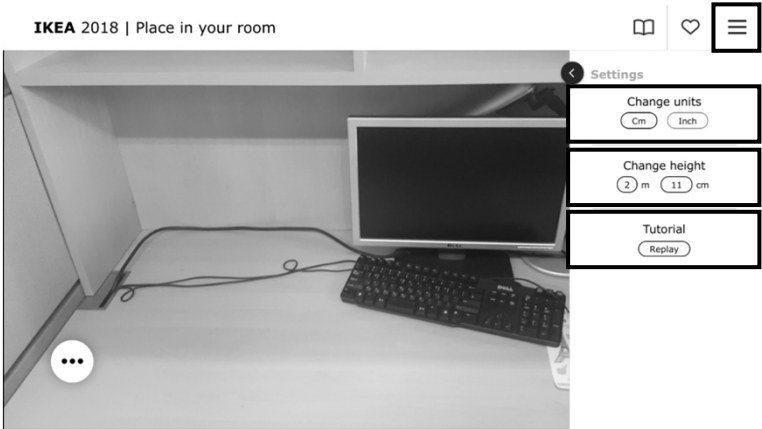
❖ AR 3D Catalog Main page



IKEA Catalog

❖ Settings

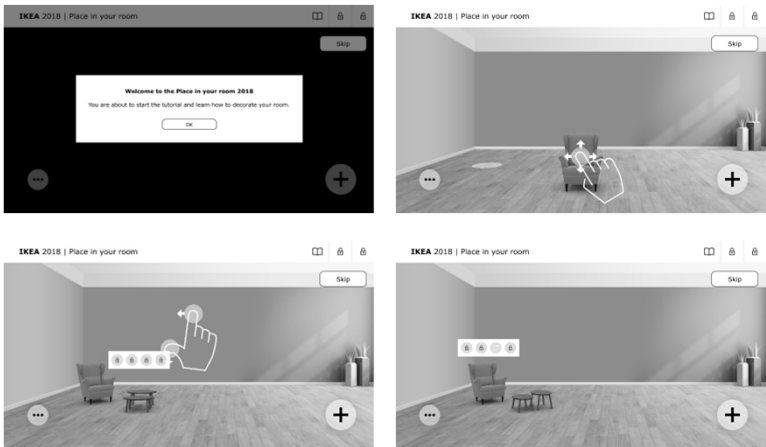
- Change the height to see how the 3D AR image can be changed
- Then Replay the Tutorial



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❖ Tutorial

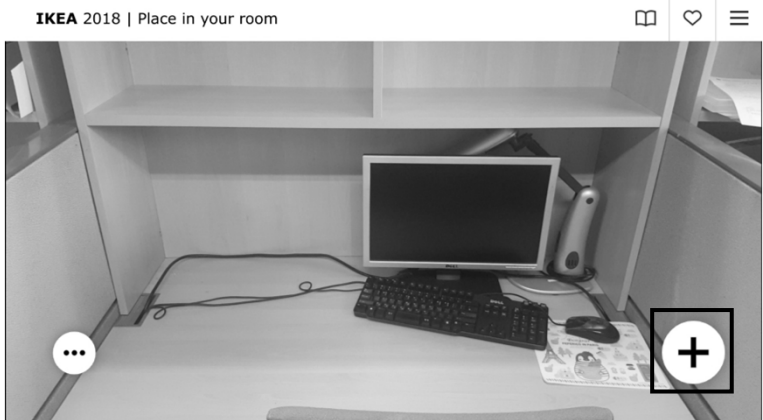
- Review all options in the Tutorial to see how the 3D AR furniture image can be changed



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❖ Placing furniture

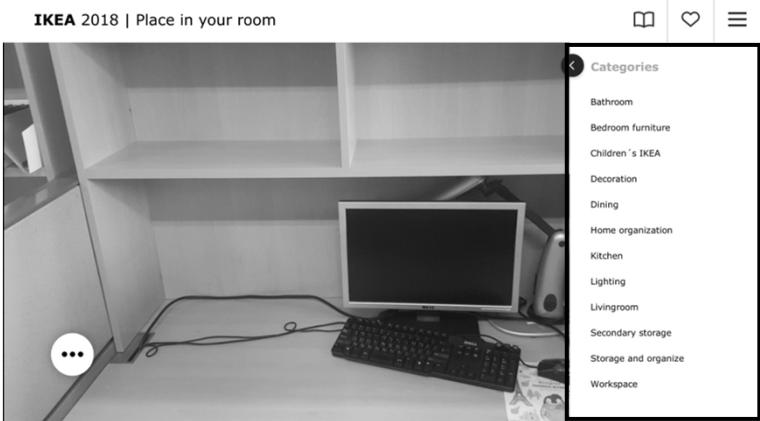
- Now try the 3D AR furniture image placement in your own office, home, or other areas



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❖ Placing furniture

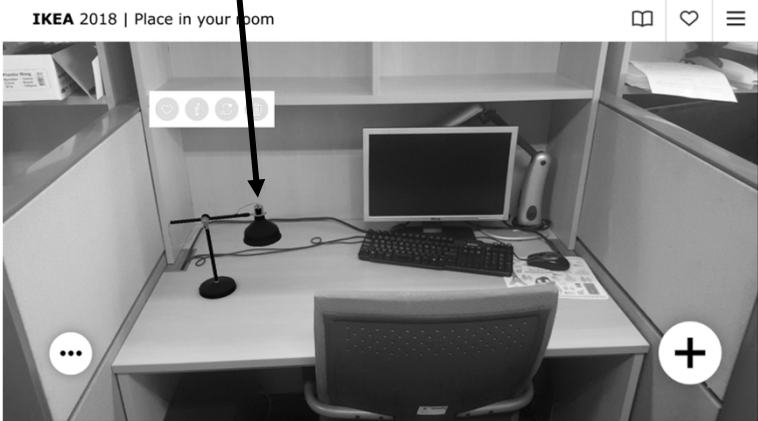
- For each of the Categories, try as many options as possible and see if there is an option that you cannot apply



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❖ Placing furniture

- For example, on the desk below, a 3D AR black lamp was added







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❖ Placing furniture

- Using the **options** below, see where the Loaded information of the selected furniture is added
- Also Replace selected furniture with other larger furniture and see if the AR system acknowledges limitations based on the size of the furniture

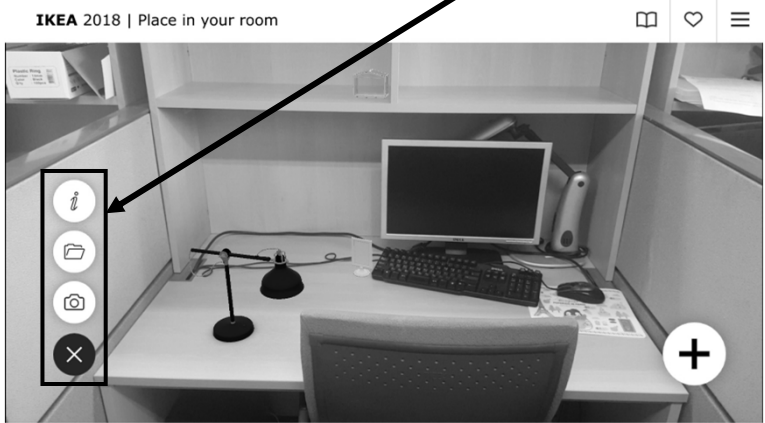


-  Save to favorite list
-  Load information of selected furniture
-  Replace selected furniture with other furniture
-  Delete selected furniture

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❖ Placing furniture

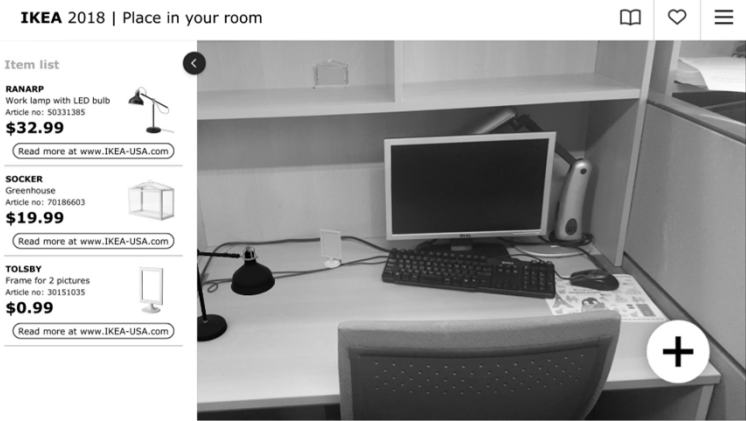
- Check out the functions of these options



IKEA Catalog

❖ Placing furniture

- For example, try and use ⓘ Load information of furniture



IKEA Catalog

❖ Placing furniture

- Also, try and use 📷 Screenshot



Project Requirements for Peer Review

❖ IKEA Catalog Experiments

- Using the various options, find when the performance is poor as in terms of
 - Cannot place a furniture item even when the space is sufficient
 - App places a furniture item in a space that is unrealistically too small for it to be placed
 - Placement of information of an item is incorrect or inappropriate (covers other objects in the screen)
 - Options that do not operate properly for the given environment circumstances

Project Requirements for Peer Review

❖ Help your Peers

- ❖ In addition, give helpful tips
- ❖ Inform others of the exciting discoveries you experienced using the IKEA Catalog AR app
- ❖ Inform your peers about other great AR apps you find that are fun and helpful
- ❖ Help others so they can understand more on AR systems

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References

References

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