

O1 Overview

Proposed project

O2
Tool
Software tools

O3
Application

Our implementation

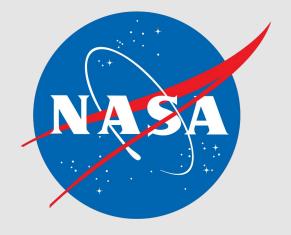
04

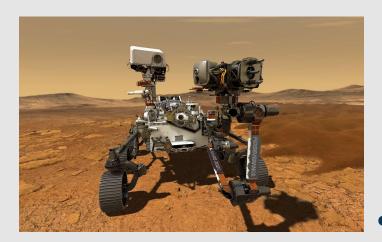
Demo

Our app demo

The objective of the project:

Developing educational application for visualizing and controlling NASA rovers





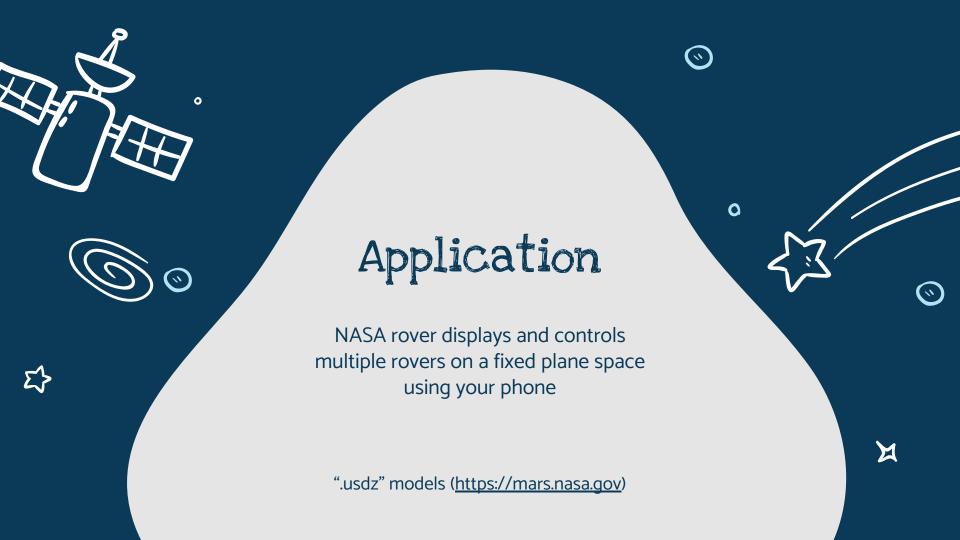
Tools:

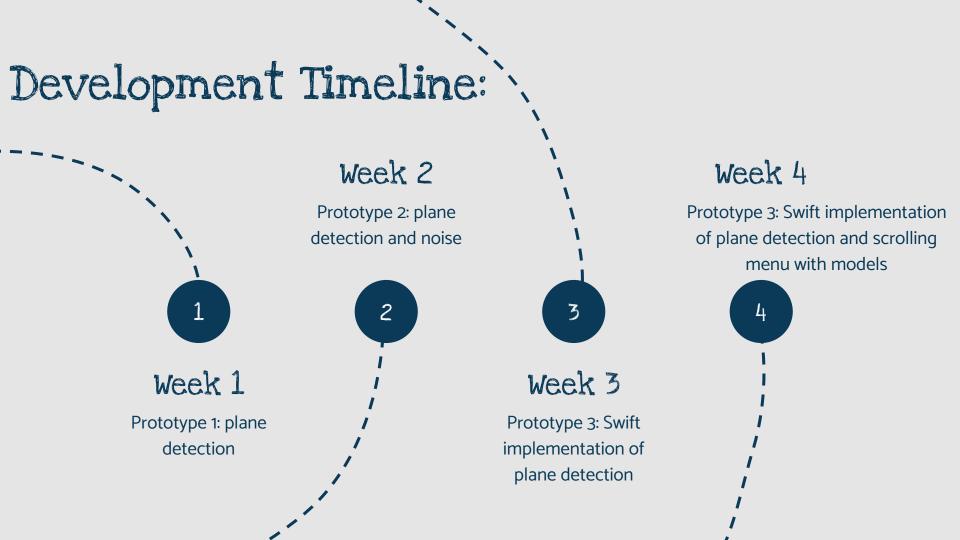


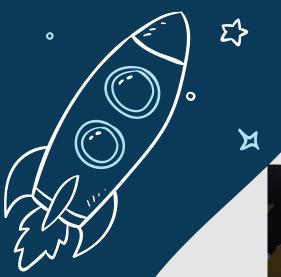




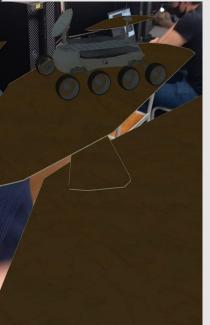








First Model





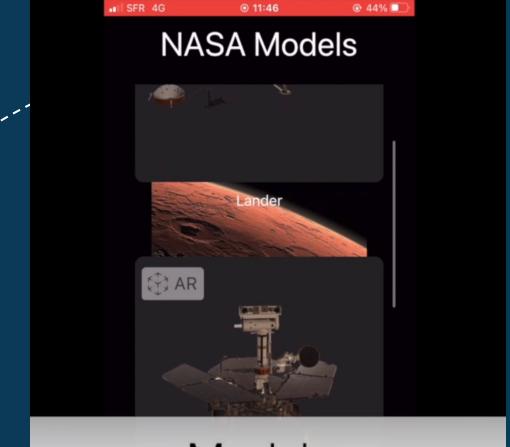




Second Model

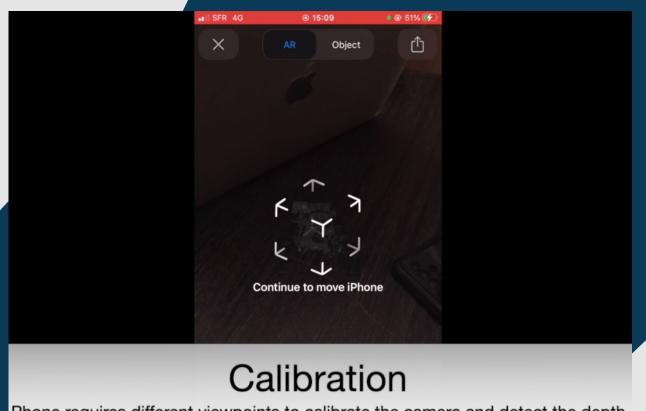






Models

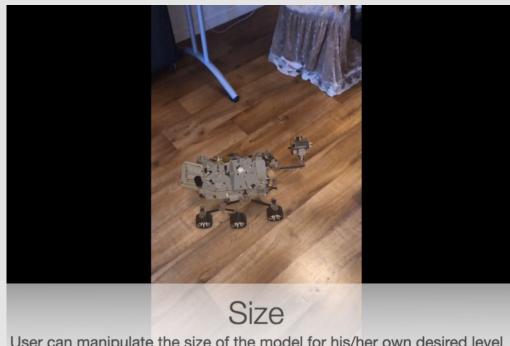
App has variety of models to run and test



Phone requires different viewpoints to calibrate the camera and detect the depth

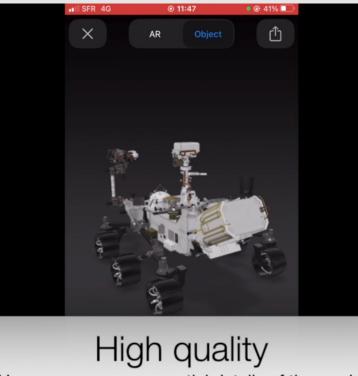
What can the user do with the app?

Here you could give a brief example what you can do: manipulate the size of the model and control its position on an on-set plane, previously detected with the help of ARkit



User can manipulate the size of the model for his/her own desired level

High quality models*



User can see very essential details of the model

M

Depth detection



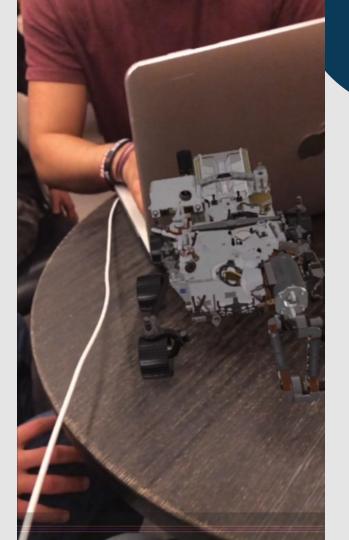
Different surfaces

Object moves only on detected surfaces. They can be different according to the environment



Surface Detecting*



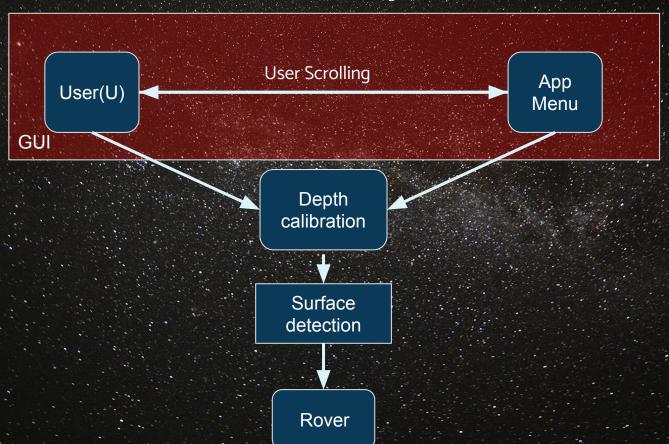




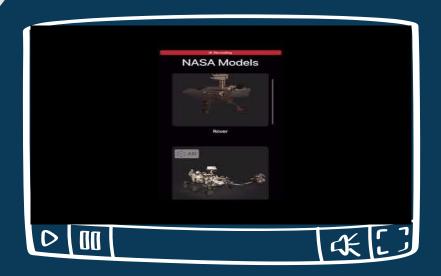


Venus

Summary



Application Demo:



References:

- Mars.nasa.gov
- <u>stfalconcom.medium.com/augmented-reality-with-swift-5-how-to-start-19118c77dffe</u>
- <u>medium.com/twinkl-educational-publishers/create-your-first-ar-app-with-realitykit-and-swiftui-7c</u> 5d1388b5

Thank you for Your attention!



