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EXPERIMENT NO: 5

DATE:02-06-2021

Creating a Simple Marker Based Augmented Reality Android Application using Unity V2019 software

To create a marker based augmented reality android application. To create a marker based augmented reality android application

System and Software Requirements:

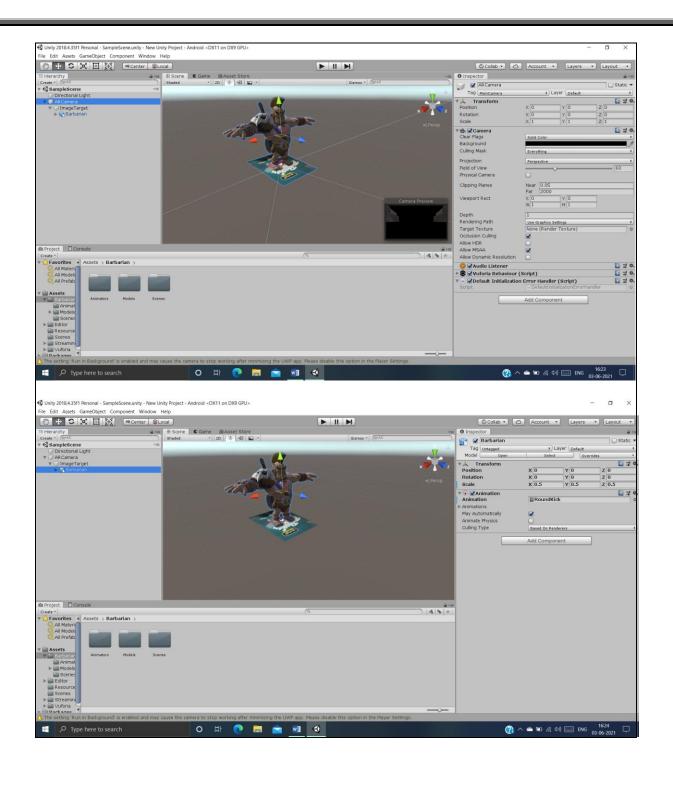
Unity 2019.2 V, Android Studio, Oracle JDK, Oracle JRE, Android device.

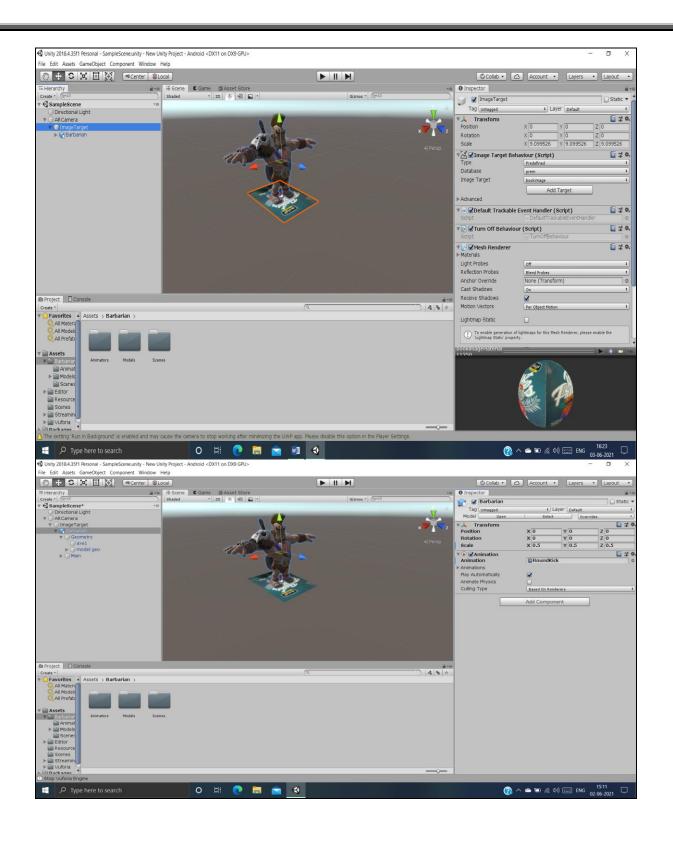
Procedure:

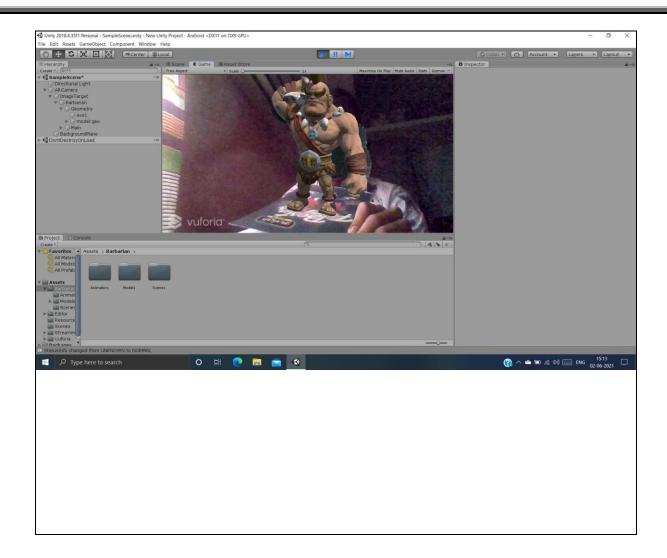
(On your own don't copy from manual)

- Create a new project from unity hub with 3D template.
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- •Go to player setting XR settings and import Vuforia augmented reality support options by checking the box as shown in the below picture
- now come back to GUI and import the AR camera from game object Vuforia engine- AR camera and delete main camera as shown in the below picture
- Now go to Vuforia development portal website and login in to Vuforia account by registering in Vuforia website and create a development key by selecting get development key option and give a database name as shown in the below picture
- Go to unity editor -Select AR camera Select Vuforia configurations in inspector panel – go to add license option - copy and paste license key from Vuforia website.
- •To create Image target database go to Vuforia website Target manager add database give name to database -select the database which is created select add target choose the image file after scanning give grid width 7 select add. Then download the database and import into unity editor by double clicking the

downloaded database.			
•In Hierarchy panel drag and drop target image to AR camera as shown in below			
picture.			
•Go to Assest store - search for 3D objects (Barbarian Warrior) - download and			
import in to unity editor.			
•In assets window go to barbarian folder- models- drag and drop barbarian model in to Gurion to image target. Give location of barbarian to (x,y,z) to (0,0,0)			
• select play to open webcam, now when the image target is shown to webcam AR effect will appear on the image target.			
•To create android application go to file - build settings - add open scenes - player settings - give product name - add production by drag and drop the icon from assest window go to Resolution and presentation options - default orientation option - select			
application orientation from auto rotation to landscape left (if required) as shown in below pictures			
Results (All screen shots need to paste here):			







Conclusions:

Hence a Simple Marker Based Augmented Reality Android Application using Unity V2019 software is created

