

# How to Test the Project

### Main Requirements

- 1. Android mobile device with an Active Camera.
- 2. <u>Target Images</u> we have prepared for testing( Hydrogen, Oxygen, Helium, Carbon and Results) ... Link to get the APK and Image Targets <u>here</u>

Note: the Result card is important...

## Onboarding

- Launch the App
- Follow the onboarding process
- Tap on Login( you do not need to fill the input field)
- Proceed to the first main screen(AR Lab)

Video Demonstration on how to test the Project: https://youtu.be/V4X612OZCCQ

### Feature 1- AR Lab

AR Lab- This is the first feature of the Application where you get to test different chemical reactions by placing the target Image cards beside each other.

**Note**: The 'Result' card is the most important card that must be tracked( must be in camera view), it does not Augment any results until a reaction has triggered it, so it will always look empty.

List of current possible reactions and how to achieve them...

#### 1. Hydrogen and Oxygen

a. Start by pointing the Result Card In Front of the camera to get it tracked.

- b. Track Hydrogen and Oxygen to display the atomic structure models.
- c. Place Hydrogen and Oxygen side by side to cause a reaction that will augment on the 'Result Card' (the result should be Water)

#### 2. Carbon and Result

- Point the camera to both Carbon card and Result card once the Carbon card has displayed.
- b. Place the Carbon card beside the Result card to cause a reaction

#### 3. Helium and Result

- a. Point the camera to both Helium card and Result card once the Helium card has displayed.
- b. Place the Helium card beside the result card to cause a reaction.

### 4. Helium and Hydrogen

a. Place the Helium card and hydrogen card side by side to cause a reaction.

### 5. Hydrogen and Result

- a. Point the camera to both Hydrogen card and result card once the Hydrogen card has displayed.
- b. Place the Hydrogen card beside the result card to cause a reaction.

# **Feature 2- Library**

AR Library- A collection of Augmented Reality information of each Chemical element on the periodic table.

- Step 1
  - Navigate to the Library from the Navigation bar.
- Step 2
  - Tap on Hydrogen ( It is currently the only active Library collection)
- Step 3
  - Point the camera to the Hydrogen Card.
- Step 4
  - Read, Scale, Rotate and manipulate augmented informations around you.

# **Feature 3- Quiz**

- Answer the correct answers from the questions displayed.
- Switch between Normal Quiz and AR quiz.

Note: in AR quiz mode, the image target to bring up the quiz question board is the 'Result card'

# **Appendix**





