



What is our GOAL for this MODULE?

We created a basic structure for the virtual tour with the HTML page and added the content as entities to the page.

What did we ACHIEVE in the class TODAY?

- Learned to create thumbnails for different places to visit.
- Learned to add different entities for different elements.

Which CONCEPTS/CODING BLOCKS did we cover today?

- document.createElement() method and variable entityEl.
- .addEventListener(), setAttribute(), .registerComponent() methods



How did we DO the activities?

- 1. Define "createCards".
 - Add the "thumbNailsRef" array.
 - Add JSON objects having id, title and URL as keys and their values.



- 2. Define the "createBorder" function to add the ring geometry for the thumbnail cards.
 - Create the entity using document.createElement()
 - Use setAttribute method to set the properties of the entity.

```
createBorder: function(position, id) {
  const entityEl = document.createElement("a-entity");
  entityEl.setAttribute("id", id);
  entityEl.setAttribute("visible", true);
  entityEl.setAttribute("geometry", {
    primitive: "ring",
    radiusInner: 9,
    radiusOuter: 10
  });
  entityEl.setAttribute("position", position);
  entityEl.setAttribute("material", {
    color: "#00bcd4",
    opacity: 0.4
  });
  return entityEl;
},
```

- 3. Define the "createThumbNail" function to add an image of the place to visit over a circle primitive.
 - Create the entity using document.createElement().
 - Use setAttribute method to set the properties of the entity.

```
createThumbNail: function(item) {
  const entityEl = document.createElement("a-entity");
  entityEl.setAttribute("visible", true);
  entityEl.setAttribute("geometry", {
    primitive: "circle",
    radius: 9
  });
  entityEl.setAttribute("material", { src: item.url });
  return entityEl;
},
```



- 4. Define the "createTitleEI" function to add the title text of the places to visit.
 - Create the entity using document.createElement()
 - Use setAttribute method to set the properties of the entity.

```
createTitleEl: function(position, item) {
  const entityEl = document.createElement("a-entity");
  entityEl.setAttribute("text", {
    font: "exo2bold",
    align: "center",
    width: 60,
    color: "#e65100",
    value: item.title
  });
  const elPosition = position;
  elPosition.y = -20;
  entityEl.setAttribute("position", elPosition);
  entityEl.setAttribute("visible", true);
  return entityEl;
},
```

5. Set the positions of the thumbnails inside "createCards" and call "createBorder", "createThumbNail" and "createTitleFl" functions.

```
let prevoiusXPosition = -60;
for (var item of thumbNailsRef) [{]
    const posX = prevoiusXPosition + 25;
    const posY = 10;
    const posZ = -40;
    const position = { x: posX, y: posY, z: posZ };
    prevoiusXPosition = posX;

// Border Element
    const borderEl = this.createBorder(position, item.id);

// // Thubnail Element
    const thumbNail = this.createThumbNail(item);
    borderEl.appendChild(thumbNail);

// Title Text Element
    const titleEl = this.createTitleEl(position, item);
    borderEl.appendChild(titleEl);

this.placesContainer.appendChild(borderEl);
}
```



6. Call the "createCards" function inside the .init() life handler method to see the output.

```
init: function() {
  this.placesContainer = this.el;
  this.createCards();
},
```



We have learned to create thumbnails required for places to visit in a virtual tour.

What's NEXT?

In the next class, we will be learning how to use the A-Frame cursor and handle cursor-events.

EXTEND YOUR KNOWLEDGE:

1. Explore more about A-Frame.