

# AngularJS – Switching between layouts and Animation

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<b>Semester:</b> VI
<b>Exercise Number:</b> 5
<b>Date:</b> March 23, 2021

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## Aim

To switch between layouts and implement animations using AngularJS.

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## Procedure

- Include the necessary angular scripts.
  - Create an angular app with dependencies ngRoute and ngAnimate.
  - Use the \$routeProvider in config() block to configure different routes.
  - When a specific url is entered, the browser will route you to the appropriate view.
  - For animation, use ng-enter, ng-leave, etc to provide a smooth transition while switching between different views.
- 

<b>Experiment Name:</b> Angular program to switch between layouts
<b>Exercise Number:</b> 5A
<b>Date:</b> March 23, 2021

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## Angular Code (myng.js)

```
var myApp = angular.module('myApp', ['ngRoute']);

myApp.config(['$routeProvider', function($routeProvider)
{
    $routeProvider
    .when('/about',
    {
        templateUrl: 'about.html'
    })
    .when('/education',
    {
        templateUrl: 'education.html'
    })
});
```

```

    })
    .when('/workexperience',
    {
        templateUrl: 'workexperience.html'
    })
    .when('/projects',
    {
        templateUrl: 'projects.html'
    })
    .when('/contact',
    {
        templateUrl: 'contact.html'
    })
    .when('/animation',
    {
        templateUrl: 'animation.html'
    }).otherwise({
        redirectTo: '/about'
    });
  });
});

```

---

## HTML Code (index.html)

```

<!DOCTYPE html>
<html ng-app="myApp">
  <head>
    <meta charset="UTF-8">
    <meta name="description" content="Portfolio Web Page">
    <meta name="keywords" content="HTML5, CSS3, JavaScript">
    <meta name="author" content="M Badri Narayanan">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My Web Page</title>
    <link rel="icon" type="image/x-icon" href="images/favicon.ico" />
    <link rel="stylesheet" href="style.css">
    <script
      ↪ src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
    <script type="text/javascript" src="angular-route.min.js"></script>
    <script src="myng.js"></script>

  </head>
  <body>
    <ng-include src="'header.html'"></ng-include>
    <br>
    <br>
    <br>
    <main ng-view>
    </main>
  </body>
</html>

```

---

## HTML Code (header.html)

```

<nav class="nav">
  <a href="index.html"><h1 id="title">M Badri Narayanan</h1></a>
  <ol id="nav1">
    <li class="nelt"><a href="#!/animation"><div id="item1"
      ↪ class="tile1">Animation</div></a></li>

```

```

<li class="nelt"><a href="#!/contact"><div id="item1" class="tile1">Contact
  ↳ Form</div></a></li>
<li class="nelt"><a href="#!/projects"><div id="item1"
  ↳ class="tile1">Projects</div></a></li>
<li class="nelt"><a href="#!/workexperience"><div id="item1" class="tile1">Work
  ↳ Experience</div></a></li>
<li class="nelt"><a href="#!/education"><div id="item1"
  ↳ class="tile1">Education</div></a></li>
<li class="nelt"><a href="#!/about"><div id="item1"
  ↳ class="tile1">About</div></a></li>
</ol>
</nav>

```

---

## HTML Code (about.html)

```

<h1>About</h1>
<p class = "static">I am currently pursuing my bachelors in Information Technology
  ↳ from SSN College of Engineering, Chennai. I am interested in the fields of
  ↳ Machine Learning , Deep Learning, Natural Language Processing, Computer Vision
  ↳ and Data Science. I would like to work in the aforementioned fields and develop
  ↳ real world solutions. I am also an avid sports fan and my hobbies include
  ↳ playing cricket, listening to music, watching movies and reading books.</p>

<h3>My Social Networking Sites</h3>
<ol>
  <li><a href="https://github.com/MBadriNarayanan"
    ↳ target="_blank">Git Hub</span></a></li>
  <li><a href="https://www.linkedin.com/in/mbadrinarayanan"
    ↳ target="_blank">LinkedIn</a></li>
</ol>

<h3>My Skills</h3>
<ul>
  <li><b>Programming Languages:</b> Python, C, C++, LATEX</li>
  <li><b>Web Development:</b> HTML5, CSS3, JavaScript</li>
  <li><b>Software & Tools:</b> Git, TensorFlow, Keras, PyTorch, scikit,
    ↳ NLTK, spaCy, OpenCV</li>
</ul>

```

---

## HTML Code (education.html)

```

<h4>My Education Details</h4>
<table border="1" align="left" width="40%">
  <tr><td>College / School</td><td>Grade</td><td>Marks
    ↳ Obtained</td></tr>
  <tr><td>SSN College of Engineering, Chennai</td><td>BTech
    ↳ Information Technology</td><td>Current GPA : 8.828 (V
    ↳ Semester)</td></tr>
  <tr><td>Vidya Mandir Senior Secondary School,
    ↳ Chennai</td><td>12<sup>th</sup> Grade, Computer Science
    ↳ Group</td><td>94.4 %</td></tr>
  <tr><td>Vidya Mandir Senior Secondary School,
    ↳ Chennai</td><td>10<sup>th</sup>
    ↳ Grade</td><td>8.8</td></tr>
</table>

<h4>Extra Curricular</h4>

```

```

<ul>
  <li>Volunteering with Chennai Volunteers to teach spoken
    ↳ English classes for Tamil medium students.</li>
  <li>Captained the school cricket team</li>
  <li>Represented the college cricket team</li>
</ul>

<h4>Awards</h4>
<ul>
  <li>Won the 2<sup>nd</sup> best project in Computer Science in
    ↳ 12<sup>th</sup> grade.</li>
  <li>Stood school 3<sup>rd</sup> in Chemistry in
    ↳ 12<sup>th</sup> grade.</li>
</ul>

```

---

## HTML Code (workexperience.html)

```

<h1>Work Experience</h1>
  <h4>Machine Learning Intern, MAD STREET DEN, Chennai</h4>
    <ul>
      <li><b>Duration : March 2021 - Present</b></li>
      <li>Worked in clustering of catalogue items using Artificial
        ↳ Neural Networks.</li>
    </ul>

  <h4>Undergraduate Research Assistant, SOLARILLION FOUNDATION, Chennai</h4>
    <ul>
      <li><b>Duration : February 2020 - Present</b></li>
      <li>Research on sign language translation.</li>
    </ul>

  <h4>Freelance Projects</h4>
    <ul>
      <li><b>Duration : October 2020 - Present</b></li>
      <li>Undertook projects via Freelancer.com.</li>
      <li>Classification of ICD Code using state of art Transformer
        ↳ Model.</li>
      <li>Malware Detection using Deep Learning and Artificial
        ↳ Neural Networks.</li>
      <li>Arabic Tweet Rumor Detection using NLP and LSTMs.</li>
    </ul>

  <h4>ML / AI Intern, APPCILIOUS PVT LTD, Bangalore</h4>
    <ul>
      <li><b>Duration : August 2020 - September 2020</b></li>
      <li>Data preprocessing, data cleaning.</li>
      <li>Developed a chat bot using modern NLP architectures and
        ↳ techniques.</li>
      <li>Feature extraction and feature comparison using SIFT and
        ↳ OpenCV.</li>
    </ul>

  <h4>Summer Intern, PRODIAN INFOTECH PVT LTD, Chennai</h4>
    <ul>
      <li><b>Duration : June 2020 - August 2020</b></li>
      <li>Data preprocessing, data cleaning of cricket match data
        ↳ and feature analysis.</li>
      <li>Applying Unsupervised ML Algorithms to get the top 5
        ↳ features that affect a cricket match.</li>
    </ul>

```

---

## HTML Code (projects.html)

```
<h1>Projects</h1>
  <h4>Clickbait Classification</h4>
    <ul>
      <li>Done in <b>August 2020</b></li>
      <li><a
        ↪ href="https://github.com/MBadriNarayanan/ClickbaitClassification"
        ↪ target="_blank">Git Hub Link</a></li>
      <li>Classifying clickbaits using modern NLP techniques and
        ↪ architectures.</li>
    </ul>
  <h4>Object Detection Using YOLO v3</h4>
    <ul>
      <li>Done in <b>August 2020</b></li>
      <li><a
        ↪ href="https://github.com/MBadriNarayanan/ObjectDetectionUsingYOLOv3"
        ↪ target="_blank">Git Hub Link</a></li>
      <li>Object detection using YOLO v3 Algorithm with custom
        ↪ dataset.</li>
    </ul>

  <h4>Machine Translator</h4>
    <ul>
      <li>Done in <b>August 2020</b></li>
      <li><a
        ↪ href="https://github.com/MBadriNarayanan/MachineTranslation"
        ↪ target="_blank">Git Hub Link</a></li>
      <li>English to French neural machine translator built using
        ↪ Transformer architecture in NLP.</li>
    </ul>

  <h4>Object Detection Using YOLO v3</h4>
    <ul>
      <li>Done in <b>February 2020 - April 2020</b></li>
      <li><a href="https://github.com/MBadriNarayanan/FlightDelayPrediction"
        ↪ target="_blank">Git Hub Link</a></li>
      <li>Developed a two stage machine learning model to predict if flights
        ↪ will be delayed upon arrival and if so, the delay in minutes based
        ↪ on the weather data at departure.</li>
    </ul>
```

---

## CSS Code

```
body
{
  background-color: linen;
}
form
{
  text-align: center;
}
main.ng-enter
{
  transition: 0.5s linear all;
  opacity: 0;
}

main.ng-enter.ng-enter-active
```

```

{
    opacity: 1;
}
.nav
{
    position: fixed;
    margin-top: 0px;
    width: 101%;
    height: 70px;
    background-color: #00303f;
    margin-left: -8px;
    padding-right: -20px;
    margin-top: -10px;
    z-index: 1;
    top: 0;
}
#title
{
    display: inline;
    float: left;
    margin-bottom: 1px;
    padding-left: 5px;
    color: white;
}
nav li
{
    list-style-type: none;
}
#nav1 a
{
    text-decoration: none;
    color: white;
    position: relative;
    float: right;
    display: inline-block;
    width: 130px;
    height: 68px;
    top: -15px;
    bottom: -10px;
    left: -19px;
}
.tile1
{
    position: absolute;
    top: 25px;
    left: 40px;
}
#nav1 a:hover
{
    background-color: #b67171;
    transition: background-color 0.5s ease-in-out;
    transition-timing-function: ease;
}
ul
{
    background-color: lightblue;
    width: 20%;
    padding: 25px;
}
.header

```

```

{
    background-color: rgb(255, 253, 208);
    padding: 20px;
    text-align: center;
}
#animated_div
{
    width:70px;
    height:47px;
    background: #92B901;
    color: white;
    position: relative;
    font-weight:bold;
    font-size:20px;
    padding:10px;
    animation:animated_div 5s 1;
    -moz-animation:animated_div 5s 1;
    -webkit-animation:animated_div 5s 1;
    -o-animation:animated_div 5s 1;
    border-radius:5px;
    -webkit-border-radius:5px;
}

@keyframes animated_div
{
    0% {transform: rotate(0deg);left:0px;}
    25% {transform: rotate(20deg);left:0px;}
    50% {transform: rotate(0deg);left:500px;}
    55% {transform: rotate(0deg);left:500px;}
    70% {transform: rotate(0deg);left:500px;background:#1ec7e6;}
    100% {transform: rotate(-360deg);left:0px;}
}

@-webkit-keyframes animated_div
{
    0% {-webkit-transform: rotate(0deg);left:0px;}
    25% {-webkit-transform: rotate(20deg);left:0px;}
    50% {-webkit-transform: rotate(0deg);left:500px;}
    55% {-webkit-transform: rotate(0deg);left:500px;}
    70% {-webkit-transform: rotate(0deg);left:500px;background:#1ec7e6;}
    100% {-webkit-transform: rotate(-360deg);left:0px;}
}

@-moz-keyframes animated_div
{
    0% {-moz-transform: rotate(0deg);left:0px;}
    25% {-moz-transform: rotate(20deg);left:0px;}
    50% {-moz-transform: rotate(0deg);left:500px;}
    55% {-moz-transform: rotate(0deg);left:500px;}
    70% {-moz-transform: rotate(0deg);left:500px;background:#1ec7e6;}
    100% {-moz-transform: rotate(-360deg);left:0px;}
}

@-o-keyframes animated_div
{
    0% {transform: rotate(0deg);left:0px;}
    25% {transform: rotate(20deg);left:0px;}
    50% {transform: rotate(0deg);left:500px;}
    55% {transform: rotate(0deg);left:500px;}
    70% {transform: rotate(0deg);left:500px;background:#1ec7e6;}
    100% {transform: rotate(-360deg);left:0px;}
}

```

}

## Output

Figure 1: Output Pic1

M Badri Narayanan

AboutEducationWork ExperienceProjectsContact FormAnimation

### About

I am currently pursuing my bachelors in Information Technology from SSN College of Engineering, Chennai. I am interested in the fields of Machine Learning , Deep Learning, Natural Language Processing, Computer Vision and Data Science. I would like to work in the aforementioned fields and develop real world solutions. I am also an avid sports fan and my hobbies include playing cricket, listening to music, watching movies and reading books.

### My Social Networking Sites

1. [Github](#)
2. [LinkedIn](#)

### My Skills

- **Programming Languages:** Python, C, C++, LATEX
- **Web Development:** HTML5, CSS3, JavaScript
- **Software & Tools:** Git, TensorFlow, Keras, PyTorch, scikit, NLTK, spaCy, OpenCV

Figure 2: Output Pic2

M Badri Narayanan

AboutEducationWork ExperienceProjectsContact FormAnimation

### My Education Details

College / School	Grade	Marks Obtained
SSN College of Engineering, Chennai	BTech Information Technology	Current GPA : 8.828 (V Semester)
Vidya Mandir Senior Secondary School, Chennai	12 <sup>th</sup> Grade, Computer Science Group	94.4 %
Vidya Mandir Senior Secondary School, Chennai	10 <sup>th</sup> Grade	8.8

### Extra Curricular

- Volunteering with Chennai Volunteers to teach spoken English classes for Tamil medium students.
- Captained the school cricket team
- Represented the college cricket team

### Awards

- Won the 2<sup>nd</sup> best project in Computer Science in 12<sup>th</sup> grade.
- Stood school 3<sup>rd</sup> in Chemistry in 12<sup>th</sup> grade.

Figure 3: Output Pic3

M Badri Narayanan

AboutEducationWork ExperienceProjectsContact FormAnimation

### Work Experience

#### Machine Learning Intern, MAD STREET DEN, Chennai

- **Duration : March 2021 - Present**
- Worked in clustering of catalogue items using Artificial Neural Networks.

#### Undergraduate Research Assistant, SOLARILLION FOUNDATION, Chennai

- **Duration : February 2020 - Present**
- Research on sign language translation.

#### Freelance Projects

- **Duration : October 2020 - Present**
- Undertook projects via Freelancer.com.
- Classification of ICD Code using state of art Transformer Model.
- Malware Detection using Deep Learning and Artificial Neural Networks.
- Arabic Tweet Rumor Detection using NLP and LSTMs.

#### ML / AI Intern, APPCILLIOUS PVT LTD, Bangalore

- **Duration : August 2020 - September 2020**
- Data preprocessing, data cleaning.
- Developed a chat bot using modern NLP architectures and techniques.



Figure 4: Output Pic4

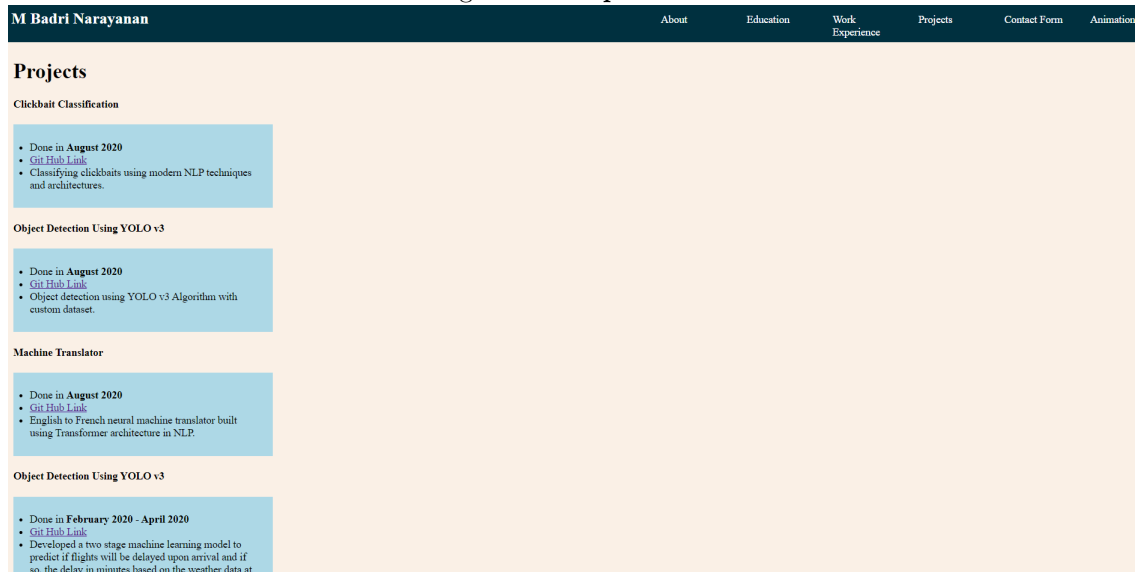


Figure 5: Output Pic5

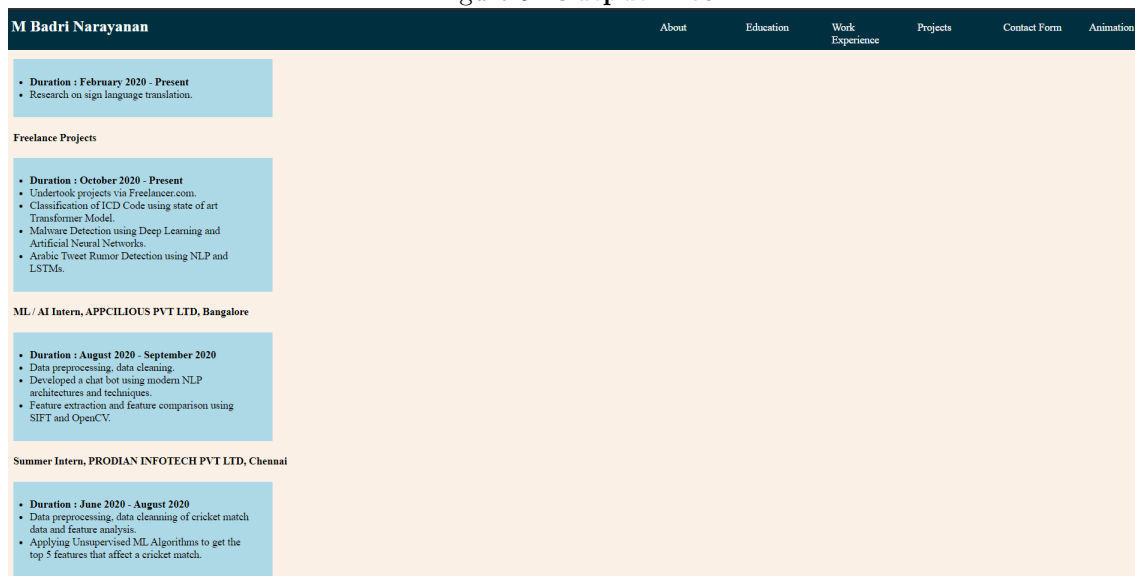


Figure 6: Output Pic6

The screenshot shows a web page with a dark blue header containing the name 'M Badri Narayanan' and navigation links: 'About', 'Education', 'Work Experience', 'Projects', 'Contact Form', and 'Animation'. The 'Contact Form' is the active page. The form itself has a light orange background and contains the following fields:

- Title:** A dropdown menu with 'Mr' selected.
- First Name:** A text input field containing 'John'.
- Last Name:** A text input field containing 'Doe'.
- Phone Number:** A text input field containing '8220584258'.
- Email:** A text input field containing 'johndoe@gmail.com'.
- Subject:** A text area containing 'Very good website !!'.

A 'Submit' button is located at the bottom right of the form.

Figure 7: Output Pic7

The screenshot shows the same web page as Figure 6, but with different data entered into the contact form fields:

- Title:** A dropdown menu with 'Mrs' selected.
- First Name:** A text input field containing 'Jane'.
- Last Name:** A text input field containing 'Doe'.
- Phone Number:** A text input field containing '1234567890'.
- Email:** A text input field containing 'janedoe@gmail.com'.
- Subject:** A text area containing 'Greate website !!'.

A 'Submit' button is located at the bottom right of the form.

---

<b>Experiment Name:</b> Angular JS Animations
<b>Exercise Number:</b> 5B
<b>Date:</b> March 23, 2021

---

## Angular Code (animation.html)

```
<script
↪ src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular.min.js"></script>
<script
↪ src="https://ajax.googleapis.com/ajax/libs/angularjs/1.6.9/angular-animate.js"></script>
<body ng-app="ngAnimate">

    <h2>Click the check box to view the animation<input type="checkbox"
    ↪ ng-model="myCheck"></h2>
    <div ng-hide="myCheck">
        <h3>Profile</h3>
        <img src = "Profile.png" alt = "My Profile Picture"
        ↪ usemap="#profile" height = "400" width = "400"></img><br>
        <h3>Languages</h3>
        <ul>
            <li>English</li>
            <li>Tamil</li>
            <li>Hindi</li>
            <li>Sanskrit</li>

        </ul>

        <h3>Achievements</h3>
        <ul>
            <li>Stood school 3rd in Chemistry in 12th
            ↪ standard.</li>
            <li>Won the 2nd best project in Computer Science in
            ↪ 12th standard.</li>

        </ul>

    </div>
</body>
```

---

---

## Output

Figure 8: Output Pic1

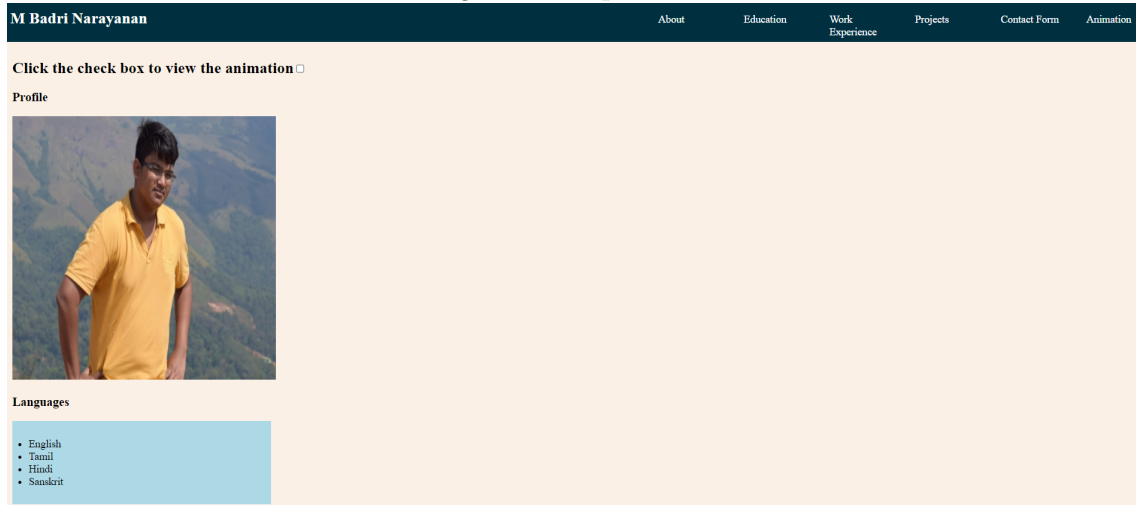
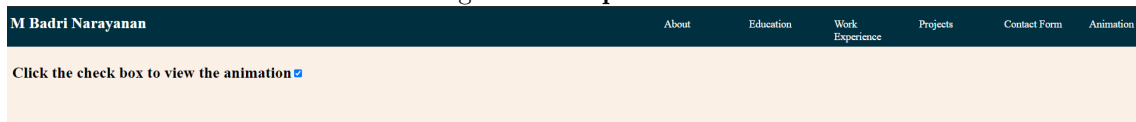


Figure 9: Output Pic2



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## Result

Switching between layouts and Animation were implemented successfully.

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