#1

```
function doGet(e) {
  let temp = 'index';
  if ('page' in e.parameters) {
    temp = e.parameters['page'][0]
  }
  try {
    const html = HtmlService.createTemplateFromFile(temp);
    html.data = { title: temp, e: e }
    return html.evaluate();
  }
  catch (err) {
    const html = HtmlService.createHtmlOutput('Page not found 404 Error:' +
JSON.stringify(err));
    return html;
  }
}
 function getScriptUrl() {
  const url = ScriptApp.getService().getUrl();
  return url;
}



function menu() {
  const url = getScriptUrl();
  let html = HtmlService.createHtmlOutputFromFile('menu').getContent();
  html = html.replace(/\?page/g, url + '?page');
  Logger.log(html);
  return html;
}
 function tester() {
  const filename = 'index';
  Logger.log(HtmlService.createHtmlOutputFromFile(filename));
  Logger.log(HtmlService.createHtmlOutputFromFile(filename).getContent());
}
 function include(filename) {
  return HtmlService.createHtmlOutputFromFile(filename).getContent();
}
 <script>
  const datags = <?!= JSON.stringify(data) ?>;
  console.log(datags);
  //document.write(JSON.stringify(datags));
```

```
</script>
<!DOCTYPE html>
<html>
  <head>
    <base target="_top">
    <?!= include('style1') ?>
  </head>
  <body>
    <h1>Hello this is page index</h1>
    <?!= menu() ?>
    <?!= include('randomWords') ?>
    <?!= include('random2') ?>
  </body>
</html>
     <script>
      function randomWords(){
        let h1 = document.createElement('h1');
        let title = datags.title.toUpperCase();
        h1.textContent = `${title} Is this current page`;
        document.body.append(h1);
        let output = document.createElement('div');
        document.body.append(output);
        for(let i = 0;i<100;i++){
          let val = Math.floor(Math.random()*8)+1;
          output.innerHTML += Math.random().toString(36).substr(2,val) + ' ';
        }
      }

    </script>
 <style>
  body {
    background:#eee;
    color:#111;
  }
  ul{
    list-style-type:none;
    margin:0;
    padding:0;
    overflow:hidden;
  }
  li {
    float:left;
```

```
  }
  li a{
    display:block;
    padding:5px;
    background-color:#ccc;
   }
  </style>
 <script>
  for(let x=0;x<3;x++){
  randomWords();
  }
</script>
 <div >
  <ul style="background:red">
    <li><a href="?page=index" target="_top">Home Page</a></li>
   <li><a href="?page=index2" target="_top">Index 2</a></li>
      <li><a href="?page=index3" target="_top">Index 3</a></li>
      <li><a href="?page=index4" target="_top">Index 4</a></li>
     </ul>
  </div>
  <hr>
```

#2

```
function onOpen(){
  const ui = DocumentApp.getUi();
  ui.createMenu('ADV')
  .addItem('sideBar','mysidebar')
  .addItem('dialog','mydialog')
  .addToUi();
}
 function mysidebar(){
  const html = HtmlService.createTemplateFromFile('side').evaluate();
  html.setTitle('Doc Updater');
  DocumentApp.getUi().showSidebar(html);
}
 function mydialog(){
  const html = HtmlService.createTemplateFromFile('dialog').evaluate();
  html.setWidth(600).setHeight(400);
  DocumentApp.getUi().showModelessDialog(html,'Dialog');

}
function removeEle(val){
  const body = DocumentApp.getActiveDocument().getBody();
```

```
  const paras = body.getParagraphs();
  paras[val].setText('REMOVE');
}
 function listEles(){
  const body = DocumentApp.getActiveDocument().getBody();
  Logger.log(body.getParagraphs());
  const holder = [];
  const paras = body.getParagraphs();
  paras.forEach((p,index)=>{
    const obj = {
      type:p.getType(),
      content:p.getText(),
      index : index
    }
    holder.push(obj);
  })
  Logger.log(holder);
  return holder;
}

function addtoDoc(data){
  const body = DocumentApp.getActiveDocument().getBody();
  const h = data.h1;
  const p = data.p;
  const header = body.appendParagraph(h);
  const style = {};
  style[DocumentApp.Attribute.HEADING] = DocumentApp.ParagraphHeading.HEADING1;
  header.setAttributes(style);
  const contentPara = body.appendParagraph(p);
  const style1 = {};
  style1[DocumentApp.Attribute.BACKGROUND_COLOR] = '#00ff00';
  contentPara.setAttributes(style1);
  return {success:true};
}



<!DOCTYPE html>
<html>
  <head>
    <base target="_top">
    <style>
      input, textarea, label{
```

```
        display:block;
      }
      body{
        color:white;
        background:#ddd;
      }
       </style>
  </head>
  <body>
    <h1>Content Adder</h1>
    <div >
      <label for="heading">Add Heading</label>
      <input id="heading" type="text" value="heading">
     </div>
    <div >
      <label for="para">Add Heading</label>
      <textarea id="para" ></textarea>
     </div>
     <div>
       <button class="adder">Save to Doc</button>
       </div>
   <?!= HtmlService.createHtmlOutputFromFile('sidejs').getContent() ?>
   </body>
</html>
```

```
 <!DOCTYPE html>
<html>
  <head>
    <base target="_top">
  </head>
  <body>
    <div class="output"></div>
    <div>
       <button class="adder">List page elements</button>
       </div>
       <?!= HtmlService.createHtmlOutputFromFile('dialogjs').getContent() ?>
  </body>
</html>
```

```
<script>
 const btn = document.querySelector('.adder');
 const contentHeader =document.querySelector('#heading');
 const contentParagraph =document.querySelector('#para');
 console.log(contentParagraph);
 console.log(contentHeader);
 btn.addEventListener('click',()=>{
   const obj = {
     'h1' : contentHeader.value,
     'p' : contentParagraph.value
   }
 google.script.run.withSuccessHandler(success).addtoDoc(obj);
    console.log('clicked');
 })
 function success(data){
   console.log(data);
 }
 </script>

<script>
 const btn = document.querySelector('.adder');
 const output =document.querySelector('.output');
  btn.addEventListener('click',loadList);
  function loadList(){
   google.script.run.withSuccessHandler(success).listEles();
   console.log('clicked');
 }
 function success(data){
   console.log(data);
   output.innerHTML = '';
   data.forEach((el)=>{
     console.log(el);
     if(el.content.length > 0){
     let div = document.createElement('div');
     div.textContent = el.content;
     div.addEventListener('click',(e)=>{
       console.log(el.index);
       google.script.run.withSuccessHandler(loadList).removeEle(el.index);
     })
     output.append(div);
     }
   })
```

```
  }
  </script>
```

#3

```
function doGet(e) {
  let email = Session.getActiveUser().getEmail();
  try {
    const html = HtmlService.createTemplateFromFile('quiz');
    html.data = {
      data: quizData(),
      email: email
    }
    return html.evaluate();
  }
  catch (e) {
    return HtmlService.createHtmlOutput('<h1>Not found</h1>');
  }
 }
  function quizData() {
  const id = '1IFBVT-uvXcHJTZIr4ENMlGZFvuHM6hBkisEyrbHAXvg';
  const data =
SpreadsheetApp.openById(id).getSheetByName('questions').getDataRange().getValues();
  const headings = data[0];
  const questions = data.slice(1);
  const ques = [];
  questions.forEach((el) => {
    let obj = {};
    headings.forEach((header, index) => {
      obj[header.toLowerCase()] = el[index];
    })
    ques.push(obj);
  })
  return ques;
 }

  function addSheet(vals) {
  const id = '1IFBVT-uvXcHJTZIr4ENMlGZFvuHM6hBkisEyrbHAXvg';
  const sheet = SpreadsheetApp.openById(id).getSheetByName('results');
  const headings = sheet.getDataRange().getValues()[0];
  const holder = [];
  for (x in headings) {
    let output = (headings[x] in vals) ? vals[headings[x]] : '';
```

```
    if (headings[x] == 'date') {
      output = new Date();
    }
    holder.push(output);
  }
  sheet.appendRow(holder);
  let lastRow = sheet.getLastRow();
  return { obj: vals, headings: headings, row: lastRow };
}
 <script>
  const data = <?!= JSON.stringify(data) ?>;
  console.log(data);
 </script>

<!DOCTYPE html>
<html>
 <head>
  <base target="_top">
  <style>
    .ques {
      font-size: 1.5em;
      color: black;
      font-family: arial;

    }
     .box {
      padding: 10px;
      border: 1px solid black;
      margin: 5px;
     }
     label {
      font-size: 0.7em;
      color: #ddd;
      padding: 2px;
    }
     .guideWord {
      font-size: 0.9em;
      padding: 10px;
      color: #333;
    }
     button {
      display: block;
```

```
      width: 100%;
      padding: 10px;
      border-radius: 15px;
      border: 1px solid black;
    }
     .userInfo {
      width: 100%;
      text-align: center;
      background: black;
    }
     .userInfo input {
      width: 70%;
    }
  </style>
</head>
 <body>
  <form class="questions">
    <div class="userInfo">
      <label for="email">Your Email</label>
      <input type="email" id="email" name="email">
        </div>
      <div class="userInfo">
        <label for="name">Your Name</label>
        <input type="text" id="name" name="name" value="Laurence">
        </div>
  </form>
  <?!= HtmlService.createHtmlOutputFromFile('quizjs').getContent() ?>
</body>
 </html>
 <script>
  console.log('ready');
  console.log(data.data);
  data.data.sort(()=> .5 - Math.random());
  console.log(data.data);
  const questions = document.querySelector('.questions');
  const myEmail = document.querySelector('#email');
  const listQ = document.createElement('div');
  const btn = document.createElement('button');
  btn.textContent = 'Submit Quiz';
  btn.setAttribute('type','submit');
  questions.addEventListener('submit',subForm);
  questions.append(listQ);
```

```
  myEmail.value = data.email;
  console.log(questions);
  data.data.forEach((el)=>{
    const li = document.createElement('div');
    li.classList.add('box');
    listQ.append(li);
    genInput(el,li);
    console.log(el);
  })
  questions.append(btn);

  function genInput(el,li){
    const mc = document.createElement('div');
    li.append(mc);
    const div1 = document.createElement('div');
    div1.textContent = el.question;
    div1.classList.add('ques');
    mc.append(div1);
    const div2 = document.createElement('div');
    mc.append(div2);
    const span1 = document.createElement('span');
    div2.append(span1);
    span1.classList.add('guideWord');
    span1.textContent = 'Worst';
    for( let i=1;i<6;i++){
      const span = document.createElement('span');
      const input = document.createElement('input');
      if(i==1){
        input.required = true;
        //input.checked = true;
      }
      input.setAttribute('type','radio');
      input.setAttribute('name',el.id);
      input.setAttribute('value',i);
      input.setAttribute('id',el.id+i);
      div2.append(input);
      const label = document.createElement('label');
      label.setAttribute('for',el.id+i);
      label.textContent = i;
      div2.append(label);
    }
    const span2 = document.createElement('span');
```

```
    div2.append(span2);
    span2.classList.add('guideWord');
    span2.textContent = 'Best';
  }
   function subForm(e){
    e.preventDefault();
    console.log('submit me');
    const res = {};
    res['name'] = document.querySelector('input[name="name"]').value;
    res['email'] = document.querySelector('input[name="email"]').value;
  const vals = questions.querySelectorAll('input:checked');
  console.log(vals);
  vals.forEach((i,index)=>{
    res[i.name] = Number(i.value);
  })
  btn.disabled = true;
  btn.style.backgroundColor = 'red';
  btn.textContent = 'Saving......';
    google.script.run.withSuccessHandler(onSuccess).addSheet(res);
    console.log(res);
  }
  function onSuccess(e){
    console.log(e);
    questions.innerHTML = `Thank you for submiting your results.
    Your results are in row ${e.row}`;
   }
</script>
```