

Coventry University

BSc (Hons) Multimedia Computing

304CEM

Web API Development

Assignment

API List:

1. User Login
2. User Register
3. Add Favorite List
4. Read Favorite List
5. Delete Favorite List
6. Delete Account
7. Weather
8. Google Search
9. Youtube Video
10. Google Map

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1. User Login

```
else if(req.url === "/logindata"){
  if (req.method === "POST") {
    console.log("sending");
    formData = "";
    msg = "";
    return req.on('data', function (data) {
      formData += data;
      console.log(formData);
      info = formData.split("&");
      console.log(info[0]); //login=XXX
      console.log(info[1]); //password=YYY

      return req.on('end', function () {
        var user;
        user = qs.parse(formData);

        msg = JSON.stringify(user);

        for (i = 0; i < 1; i++) {
          var c = info[i].split("=");
        }
        console.log(c[0]);
        console.log(c[1]);

        for (i = 1; i < info.length; i++) {
          var d = info[i].split("=");
        }

        console.log(d[0]);
        console.log(d[1]);

        stringMsg = JSON.parse(msg);

        MongoClient.connect(dbUrl, function (err, db) {

          if (err) throw err;

          var dbo = db.db("mydb");
          var myobj = stringMsg;
          var query = { login: c[1], password: d[1], id: c[1]};
          var items = query;
          console.log(query);

          dbo.collection("customers").find(query).toArray(function (err, items) {

            var array = [];
            for (var i = 0; i < items.length; i++) {
              array.push(items[i].login);
            }

            if (err) throw err;
            console.log(items.length);

            if (items.length > 0) {
              isLoginSuccessful = true;
              console.log("loginok");
              res.end("ACgotcha");
            } else {
              isLoginSuccessful = false;
            }
          });
        });
      });
    });
  }
}
```

```

        console.log("Fail To login");
        res.end("You Failed Successfull!");
        db.close();
    }

    });
});
});
} else {
    sendFileContent(res, "index.html", "text/html");
}
}

```

2. User Register

```

else if(req.url === "/regsdata"){
    if (req.method === "POST") {
        console.log("sending");
        formData = "";
        msg = "";
        return req.on('data', function (data) {
            formData += data;
            console.log(formData);
            info = formData.split("&");
            console.log(info[0]); //login=XXX
            console.log(info[1]); //password=YYY

            return req.on('end', function () {
                var user;
                user = qs.parse(formData);

                msg = JSON.stringify(user);

                for (i = 0; i < 1; i++) {
                    var c = info[i].split("=");
                }

                console.log(c[0]);
                console.log(c[1]);

                for (i = 1; i < info.length; i++) {
                    var d = info[i].split("=");
                }

                console.log(d[0]);
                console.log(d[1]);

                stringMsg = JSON.parse(msg);

                MongoClient.connect(dbUrl, function (err, db) {

```

```

    if (err) throw err;

    var dbo = db.db("mydb");
    var myobj = stringMsg;
    var query = { login: c[1], password: d[1], id: c[1]};
    var items = query;
    console.log(query);

    dbo.collection("customers").insertOne(query, function(err, res) {
        if (err) throw err;

        db.close();

    });

    res.end("Account Create");
  });
});
} else {
  sendFileContent(res,"index.html", "text/html");
}
}

```

3. Add Favorite List

```

else if(req.url === "/favlist"){
  if (req.method === "POST") {
    console.log("sending");
    formData = "";
    msg = "";
    return req.on('data', function (data) {
      formData += data;
      console.log(formData);
      info=formData.split("&");
      console.log(info[0]);//logid=XXX
      console.log(info[1]);//content=YYY

      return req.on('end', function () {
        var user;
        user = qs.parse(formData);

        msg = JSON.stringify(user);

        for(i=0; i<1; i++){
          var c=info[i].split("=");
        }

        console.log(c[0]);
        console.log(c[1]);

        for(i=1; i<info.length; i++){
          var f=info[i].split("=");

        }

        console.log(f[0]);
      });
    });
  }
}

```

```

        console.log(f[1]);

        stringMsg = JSON.parse(msg);

        var logid = c[1];

        var content = f[1];

        var items = { login: logid, cart: content, id: logid};

        MongoClient.connect(dbUrl, function(err, db) {
            if (err) throw err;

            var dbo = db.db("mydb");

            dbo.collection("favlist").insertOne(items, function(err, res) {

                if (err) throw err;
                console.log("Product Inserted");
                db.close();

            });
            res.end("Success");
        });
    });
});

}
else {

    sendFileContent(res, "favlist.html", "text/html");

}

```

4. Read Favorite List

```

else if(req.url === "/cart"){
    if (req.method === "POST") {
        console.log("sending");
        formData = "";
        msg = "";
        return req.on('data', function (data) {
            formData += data;
            console.log(formData);
            return req.on('end', function () {
                console.log("request data");
                MongoClient.connect(dbUrl,
function(err, db) {

                    if (err) throw err;
                    var dbo = db.db("mydb");
                    dbo.collection("favlist").find({
login: formData }).toArray(function(err, result) {

                        if (err) throw err;
                        db.close();

```

5. Delete Favorite List

6. Delete Account

```

else if(req.url === "/deleteac"){
    if (req.method === "POST") {
        console.log("Deleting");
        formData = "";
        msg = "";
        return req.on('data', function (formData) {
            console.log("User Delete:="+formData);
            stringMsg = formData;
            return req.on('end', function () {
                console.log("Delete...");
                MongoClient.connect(dbUrl, function(err, db) {
                    if (err) throw err;
                    var dbo = db.db("mydb");
                    var myquery = { login : stringMsg.toString()};
                    console.log(myquery);
                    dbo.collection("customers").deleteOne(myquery,
function(err, obj) {
                    if (err) throw err;
                    console.log("Account Delete");
                    db.close();
                    res.end("Success")
                    });
                });
            });
        });
    }
    }else {
        sendFileContent(res, "cart.html", "text/html");
    }
}

```

7. Weather

```

$( document ).ready(function() {

$.ajax({
type: "GET",
url: "https://data.weather.gov.hk/weatherAPI/opendata/weather.php?dataType=fnd&lang=en", //api for
your website
dataType: "json",
success: function (result, status, xhr){
alert(result.generalSituation); //alert the api top heading

$("#apiresult").html(result.weatherForecast);
for(i=0; i<result.weatherForecast.length ; i++){

$("#apiresult").append(result.weatherForecast[i].forecastDate);
$("#apiresult").append("</n>");

}

},
error: function (xhr,status, error){
alert("Result: " + status + "" +error + "" +xhr.status + "" + xhr.statusText)
}

});
});

```

8. Goole Search

```
<script async src="https://cse.google.com/cse.js?cx=c9f86322868c9c318"></script>  
<div class="gcse-search"></div>
```

9. Youtube Video

```
<iframe width="800" height="600" src="https://www.youtube.com/embed/LMX3rozxtHo"  
title="YouTube video player" frameborder="0" allow="accelerometer; autoplay;  
clipboard-write; encrypted-media; gyroscope; picture-in-picture" allowfullscreen></iframe>
```

10. Google Map

```
<iframe  
src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3692.0380630883406!2d114.175341315345  
68!3d22.276547949385225!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.1!3m3!1m2!1s0x3404005af0fbd011%3A0x8f  
bc82875994d91a!2z6auY5bOw6YCy5L-u5a246Zmi!5e0!3m2!1szh-TW!2shk!4v1628515379437!5m2!1szh-TW!2s  
hk" width="900" height="550" style="border:0;" allowfullscreen="" loading="lazy"></iframe>
```