# Calorie Tracker and Weight Predictor

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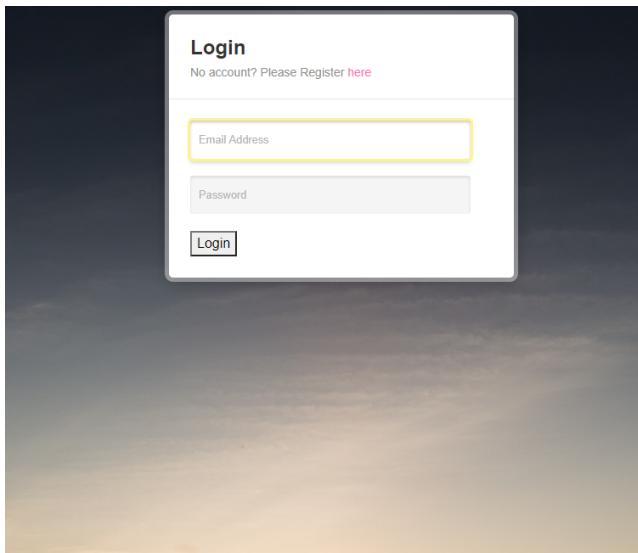Mehdi Lamouchi ID: 0651354
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Advanced Project in Health Informatics

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# Slide 1

# Slide 2

# Slide 3

```javascript
exports.login= async(req, res) => {
    try {
        const{email, password} = req.body;

        if( !email || !password){
            return res.status(400).render('login',{
                message: 'Please Enter a valid email/password'
            });
        }

        db.query('SELECT * FROM users WHERE email = ?', [email], async (error, results) => {
            console.log(results)
            if(!results || !(await bcrypt.compare(password, results[0].password))){
                res.status(401).render('login', {
                    message: 'Incorrect Password/Email'
                });
            }else{
                const id = results[0].id;
                const token = jwt.sign({id: id}, process.env.JWT_SECRET, {
                    expiresIn: process.env.JWT_EXPIRES_IN
                });
                console.log(" The token is: " + token);
                const cookieOptions = {
                    expires: new Date(
                        Date.now() + process.env.JWT_COOKIE_EXPIRES * 24 * 60 * 60 * 1000
                    ),
                    httpOnly: true
                }
                res.cookie('jwt', token, cookieOptions);
                res.status(200).redirect("/profile");
            }
        })
    } catch (error) {
        console.log(error);
    }
}
```

# Slide 5

```javascript
exports.register = (req,res)=>{

    console.log(req.body);
    const { email, password, passwordConfirm} = req.body;
    db.query('SELECT email FROM users WHERE email = ?', [email], async (error, results) => {
        if (error){
            console.log(error);
        }
        if(results.length > 0 ){
            return res.render('signup', {
                message: 'That email is already registered'
            });
        } else if (password !== passwordConfirm){
            return res.render('signup', {
                message: 'The Passwords do not match'
            });
        }

        let hashedPassword = await bcrypt.hash(password, 8);
        console.log(hashedPassword);

        db.query('INSERT INTO users SET ?', {email: email, password: hashedPassword}, (error, results) =>{
            if(error){
                console.log(error);
            }else{
                console.log(results);
                return res.render('signup',{
                    message: 'User Registered Successfully, Please login to your account'
                });
            }
        });

    });
}
```

# Slide 6

```
72   //insert food information into foodhistory table
73   app.post(
74     "/foodhistory/:userId/:foodname/:calorie/:quantity/:date",
75     (req, res) => {
76       var sqlQC =
77         "Insert into foodhistory1(userId, foodid, quantity, date) values('" +
78         req.params.userId +
79         "','" +
80         req.params.foodname +
81         "','" +
82
83         req.params.quantity +
84         "','" +
85         req.params.date +
86         "')";
87       console.log("Here");
88       con.query(sqlQC, function (error, results, fields) {
89         if (error) throw error;
90         res.send(JSON.stringify({ status: 200, error: null, response: results }));
91       });
92     }
```
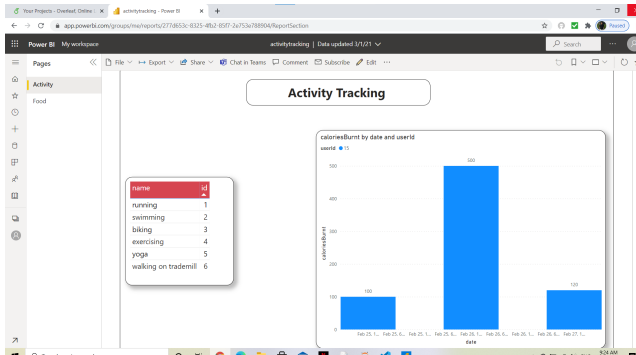
# Slide 7

```
35    //The below is for adding food info to the foodhistory table-->
36    //Function overriding may create problem.... last function my override previous
37    // meaning I may have to write different js file for each these functions
38    jQuery(function () {     //jQuery for replacing $(document).ready
39      $('#submit_b').click(function (event) {
40          $.ajax({
41              method: 'post',
42              dataType: 'html',
43              url: 'http://localhost:8080/foodhistory/' + $('#userId').val() + '/'
                   +  $('#foodname').val() + '/' + $('#calorie').val() + '/'+
                   $('#quantity').val()  + '/' + $('#date').val(),
44          });
45              // success messaage display
46      alert("Food Info Successfully added to foodhistory table");
47      // refreshing the page
48      window.location.href=window.location.href;
49      });
50  });
```
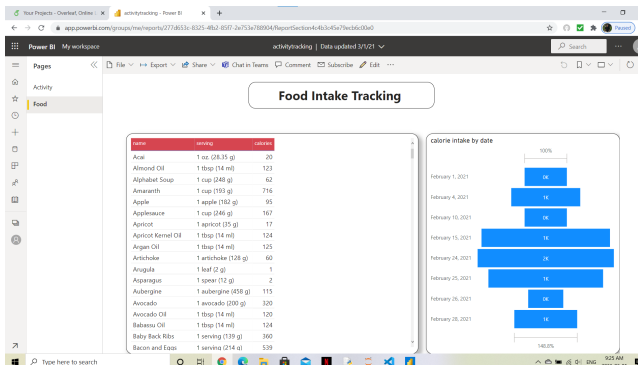
# Slide 8

```
//The below is for adding new food to the database-->
//Function overriding may create problem.... last function my override previous
// meaning I may have to write different js file for each these functions
jQuery(function () {    //jQuery for replacing $(document).ready
    $('#submit').click(function (event) {
        $.ajax({
            method: 'post',
            dataType: 'html',
            url: 'http://localhost:8080/food1/' + $('#name').val() + '/'+ $
            ('#serving').val() + '/'+ $('#calories').val() ,


        });
            // success messaage display
        alert("Food Info Successfully added to food table");
        // refreshing the page
        window.location.href=window.location.href;
        });
});
```

# Slide 9

```
41  //insert activities values into activityhistory table
42  app.post("/activityhistory/:activityId/:userId/:caloriesBurnt/:duration/:date",
    (req, res) => {
43    var sqlQA =
44      "Insert into activityhistory(activityId, userId, caloriesBurnt, duration,
        date) values('" + req.params.activityId + "','" +
45      req.params.userId +
46      "','" + req.params.caloriesBurnt + "','" +
47      req.params.duration + "','" + req.params.date +
48      "')";
49    con.query(sqlQA, function (error, results, fields) {
50      if (error) throw error;
51      res.send(JSON.stringify({ status: 200, error: null, response: results }));
52    });
53  });
54
```

# Slide 10

```
2    //The below is for adding activities for history to the database-->
3    $(document).ready(function () {    //jQuery for replacing $(document).ready
4        $('#submit_a').click(function (event) {
5            $.ajax({
6                method: 'post',
7                dataType: 'html',
8                url: 'http://localhost:8080/activityhistory/' + $('#activityId').
                     val()+ '/'+ $('#userId').val() + '/'+ $('#caloriesBurnt').val()
                     + '/'+ $('#duration').val()  + '/'+ $('#date').val(),
9            });
10               // success messaage display
11           alert("Activity Info Successfully added to activity history table");
12           // refreshing the page
13           window.location.href=window.location.href;
14           });
15       });
```

# Slide 12
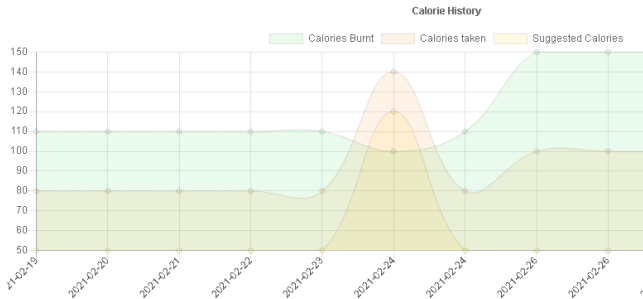
# Slide 13

# Slide 14

# Slide 15

# Slide 16

Work Distribution

- Group: Discussion and research on the subtopics, such as Node.js, Express, Visualization, DB. Decided that everyone will work on Front-end and Back-end side by side.
- Anukaran : Worked on Dashboard, food, and Doctors page, troubleshooting, set up.
- Tek: Worked on food, and activity page, Microsoft Power BI Visualization, and prepared ppt.
- Mehdi:Worked on login, signup and profile page.

# Slide 18

Suggestions Received

- Clean up the UI and make it attractive.