CSE3002 – Internet and Web Programming

Slot: L5 + L6

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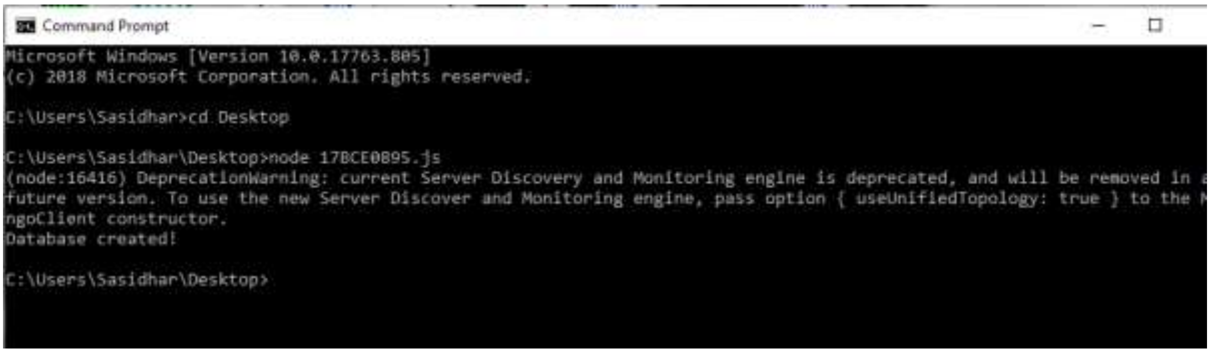
Lab Assignment – 5

Connecting to Database:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/mydb";


MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  console.log("Database created!");
  db.close();
});
```

Screenshot:



```
Microsoft Windows [Version 10.0.17763.805]
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C:\Users\Sasidhar>cd Desktop

C:\Users\Sasidhar\Desktop>node 17BCE0895.js
(node:16416) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in
future version. To use the new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the
ngoClient constructor.
Database created!

C:\Users\Sasidhar\Desktop>
```
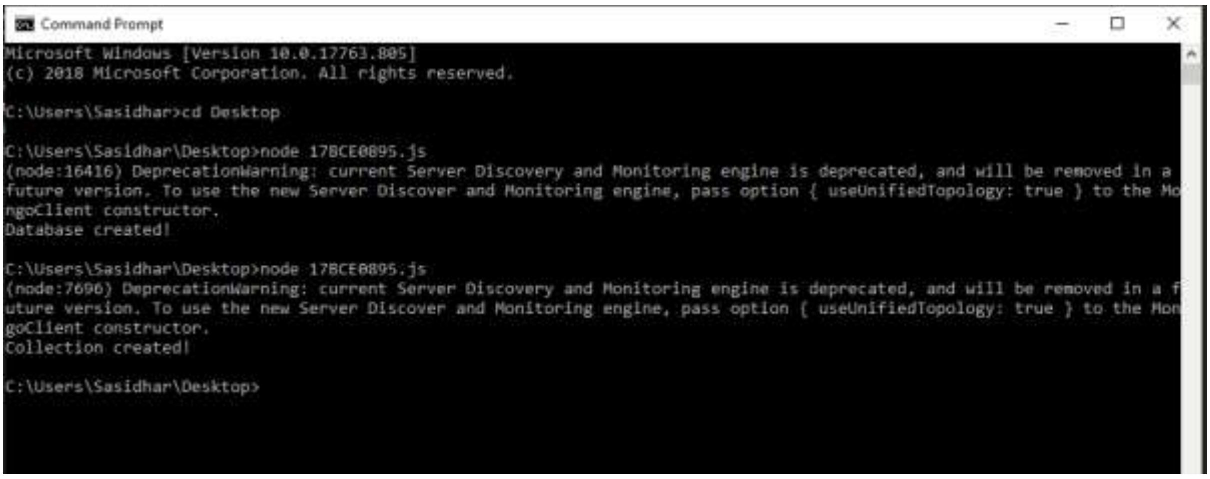

Creating a Collection:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";

MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  dbo.createCollection("customers", function(err, res) {
    if (err) throw err;
    console.log("Collection created!");
    db.close();
  });
});
```

Screenshot:

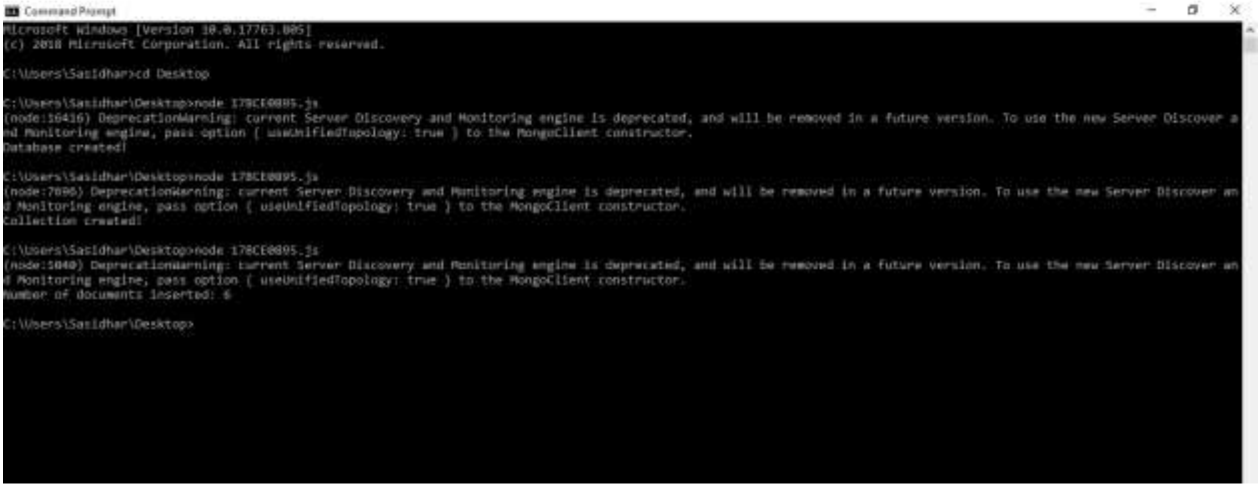


```
Microsoft Windows [Version 10.0.17763.805]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Sasidhar>cd Desktop

C:\Users\Sasidhar\Desktop>node 17BCE0895.js
(node:16416) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a
future version. To use the new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the Mo
ngoClient constructor.
Database created!

C:\Users\Sasidhar\Desktop>node 17BCE0895.js
(node:7696) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a f
uture version. To use the new Server Discover and Monitoring engine, pass option { useUnifiedTopology: true } to the Mon
goClient constructor.
Collection created!

C:\Users\Sasidhar\Desktop>
```

Inserting Data:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";
MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  var myobj = [
    { name: 'sasi', address: 'Highway 71', phone: '6878487878'},
    { name: 'susanth', address: 'Lowstreet 4', phone: '687864688'},
    { name: 'vikas', address: 'Apple st 652', phone: '8787768578'},
    { name: 'jagan', address: 'Mountain 21', phone: '6878487878'},
    { name: 'Michael', address: 'Valley 345', phone: '5468764878'},
    { name: 'Sandy', address: 'Ocean blvd 2', phone: '7876865487'}
  ];
  dbo.collection("customers").insertMany(myobj, function(err, res) {
    if (err) throw err;
    console.log("Number of documents inserted: " + res.insertedCount);
    db.close();
  });
});
```

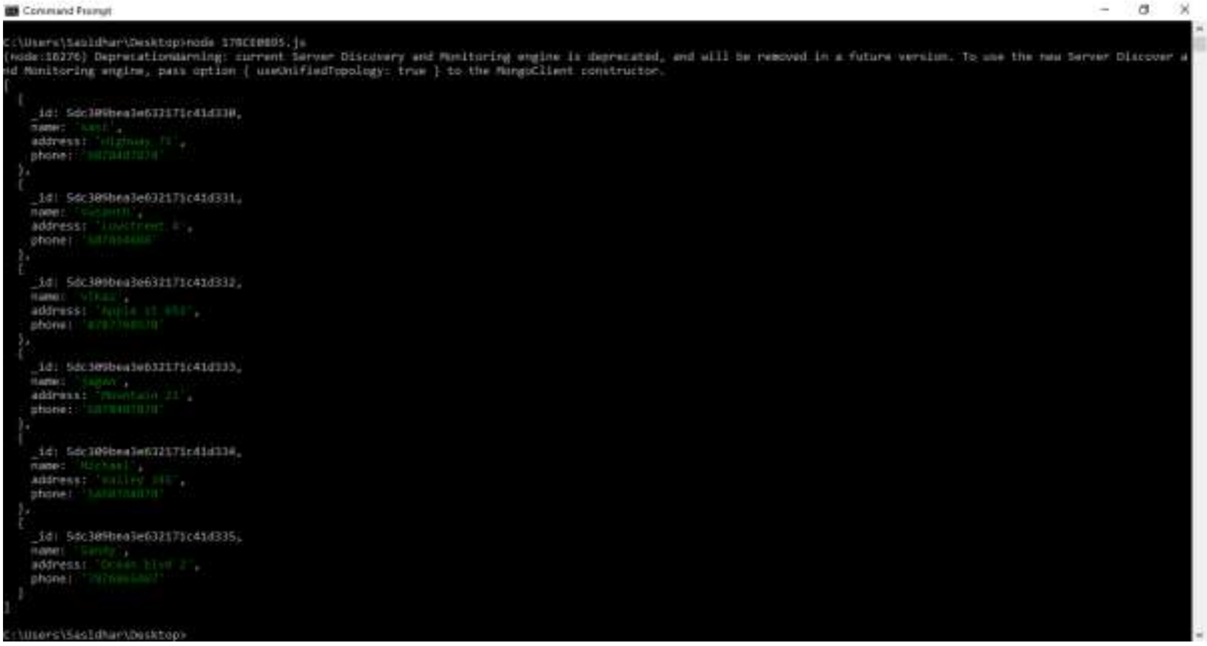
Screenshot:



```
Microsoft Windows [Version 10.0.17763.805]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Sasidhar>cd Desktop

C:\Users\Sasidhar\Desktop>node 178CE0895.js
(node:16416) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discover a
nd Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Database created!

C:\Users\Sasidhar\Desktop>node 178CE0895.js
(node:7896) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discover an
d Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Collection created!

C:\Users\Sasidhar\Desktop>node 178CE0895.js
(node:5040) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discover an
d Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
Number of documents inserted: 6

C:\Users\Sasidhar\Desktop>
```

Displaying Data:

```
var MongoClient = require('mongodb').MongoClient;
var url = "mongodb://localhost:27017/";


MongoClient.connect(url, function(err, db) {
  if (err) throw err;
  var dbo = db.db("mydb");
  dbo.collection("customers").find({}).toArray(function(err, result) {
    if (err) throw err;
    console.log(result);
    db.close();
  });
});
```



```
C:\Users\Sasidhar\Desktop>node 17BCE0805.js
(node:16276) DeprecationWarning: current Server Discovery and Monitoring engine is deprecated, and will be removed in a future version. To use the new Server Discover a
nd Monitoring engine, pass option { useUnifiedTopology: true } to the MongoClient constructor.
[
  {
    _id: 5dc309bea3e632171c41d330,
    name: '[illegible]',
    address: 'Highway 71',
    phone: '[illegible]'
  },
  {
    _id: 5dc309bea3e632171c41d331,
    name: '[illegible]',
    address: 'Lowstreet 4',
    phone: '[illegible]'
  },
  {
    _id: 5dc309bea3e632171c41d332,
    name: 'Vikas',
    address: 'Apple st 652',
    phone: '[illegible]'
  },
  {
    _id: 5dc309bea3e632171c41d333,
    name: '[illegible]',
    address: 'Mountain 21',
    phone: '[illegible]'
  },
  {
    _id: 5dc309bea3e632171c41d334,
    name: 'Michael',
    address: 'Valley 345',
    phone: '[illegible]'
  },
  {
    _id: 5dc309bea3e632171c41d335,
    name: 'Sandy',
    address: 'Ocean blvd 2',
    phone: '[illegible]'
  }
]

C:\Users\Sasidhar\Desktop>
```

Display registered users:

```
app.get('/view', function(req, res){

        user.find({}, function(err, docs){

                if(err) res.json(err);

                else    res.render('index', {users: docs});

        });

});
```

To Display User Information:

```
ul
each user in users
 li #{user.name}: #{user.age}: #{user._id}
```

Fetch individual user information:

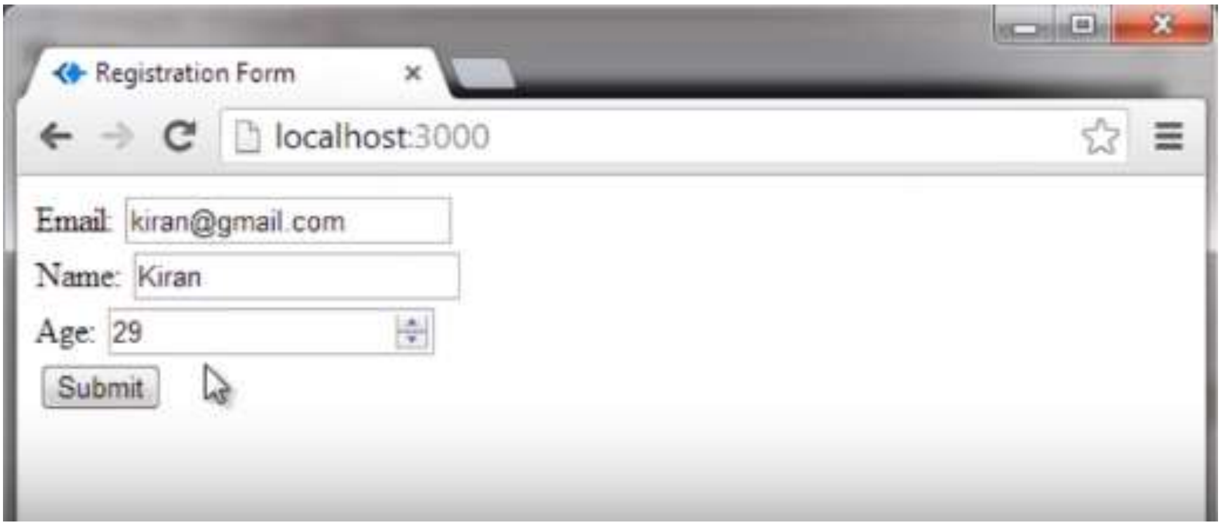
```
app.get('/view', function(req, res){
          user.find({_id: 'kiran@gmail.com'}, function(err, docs){
                    if(err) res.json(err);
                    else    res.render('index', {users: docs});
          });
});
```

Code to fetch the data and displaying in webpage:

```
var express = require('express');
var http = require('http');
var path = require('path');
var mongoose = require('mongoose');

var app = express();

// all environments
app.set('port', process.env.PORT || 3000);
app.set('views', __dirname + '/views');
app.set('view engine', 'jade');
app.use(express.bodyParser());
app.use(express.methodOverride());
app.use(app.router);
app.use(express.static(path.join(__dirname, 'public')));

mongoose.connect('mongodb://localhost/Company');

var Schema = new mongoose.Schema({
        _id   : String,
        name: String,
        age   : Number
});

var user = mongoose.model('emp', Schema);

app.get('/view', function(req, res){
        user.find({}, function(err, docs){
                if(err) res.json(err);
                else    res.render('index', {users: docs});
        });
});

app.post('/new', function(req, res){
        new user({
                _id   : req.body.email,
                name: req.body.name,
                age   : req.body.age
        }).save(function(err, doc){
                if(err) res.json(err);
                else    res.redirect('/view');
        });
});

var server = http.createServer(app).listen(app.get('port'), function(){
  console.log('Express server listening on port ' + app.get('port'));
});
```

Screenshots:

Trying to register the name which is already present in database:

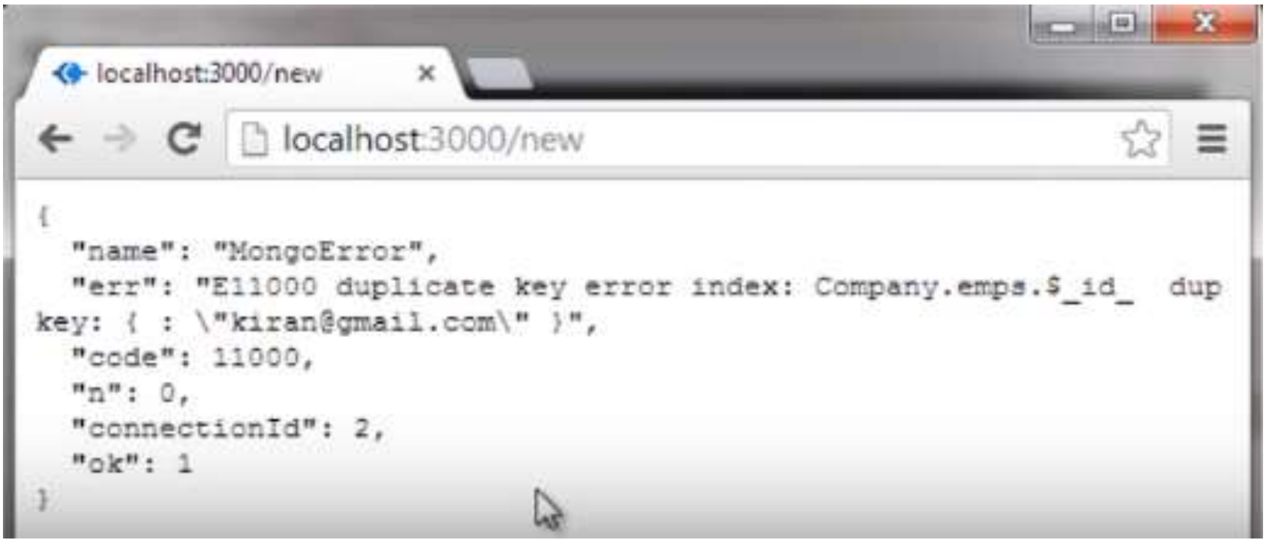


Email: kiran@gmail.com

Name: Kiran

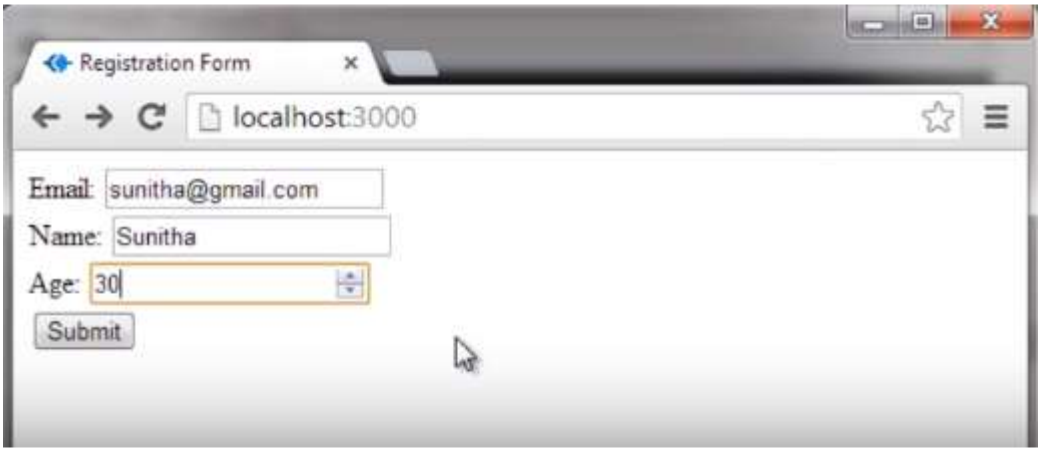
Age: 29

It shows the error:



```
{
  "name": "MongoError",
  "err": "E11000 duplicate key error index: Company.emps.$_id_  dup
key: { : \"kiran@gmail.com\" }",
  "code": 11000,
  "n": 0,
  "connectionId": 2,
  "ok": 1
}
```

Trying to register with new name:

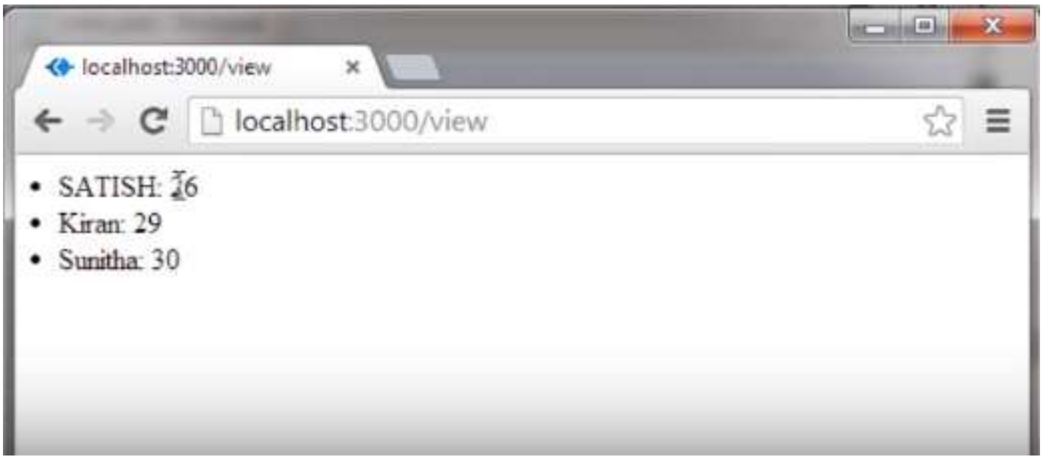


Email: sunitha@gmail.com

Name: Sunitha

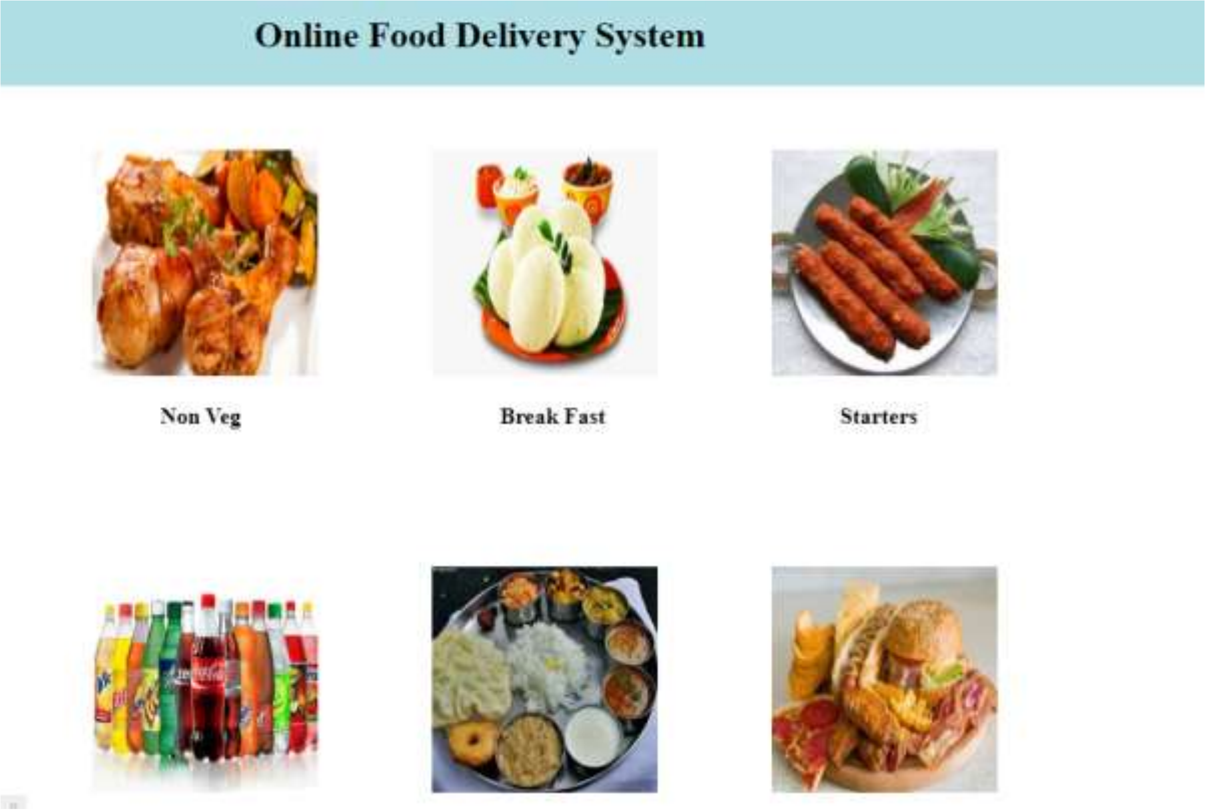
Age: 30

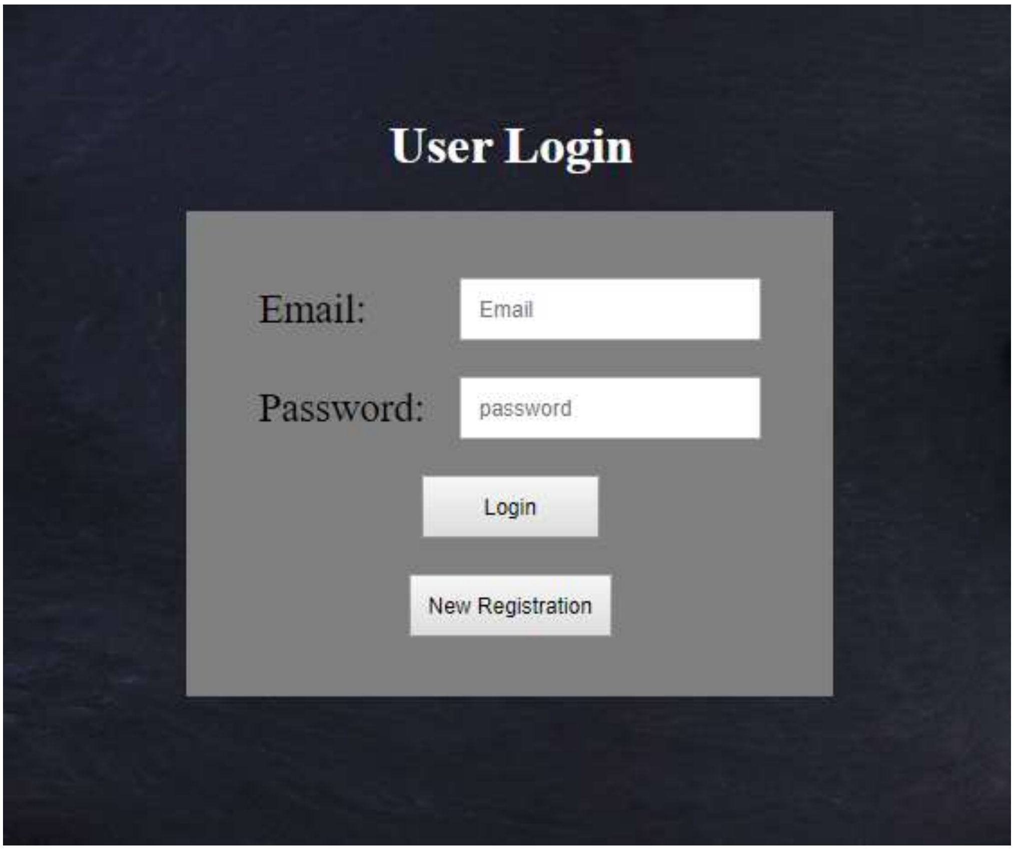
Registered successfully and data is fetched:



- SATISH: 26
- Kiran: 29
- Sunitha: 30

Sample Outputs:


Online Food Delivery System
Non Veg
Break Fast
Starters


User Login
Email:
Email
Password:
password
Login
New Registration