Web Programming (CS 546)

(DB Proposal)

Prof. Phil Barresi

Group Name: **VKNR**

Group Members:

Kriti Ruhela

Namita Powar

Rupal Desai

Vidya Sagar Polaki

Database Proposal for Workspace application.

The database will be consisting of four collections **users, credentials, companies and workspace.**
The companies and workspace collection also consist of sub collections.

1. **Users Collection:**
    This collection is used for storing all the necessary freelancers' details those who would
    be registered with our website. The users collection would be like the sample object
    design as below:

    Users Document Object
    {
           _id : "an uuid",
           name : "user name",
           email : "user email id",
           mobile : "user contact number",
           image : "url for user image",
           area_of_interest : "field in which user is interested"
    }

    Example:
    {
      "_id":"7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
      "name": "Christina D'souza",
      "email": "christina@stevens.edu",
      "mobile": "456-745-5433",
      "image": "http://www.1designshop.com/wp-content/uploads/2015/12/1dsp-20151214-
          002.png",
      "area_of_interest": "Front-end development"
    }

Name	Type	Description
_id	String	A unique identifier for the user. It will be generated using uuid.
name	String	This field will store the name of the user.
email	String	The user's email address is stored here.
mobile	Number	User's contact number will be stored here.
image	String	It will store the URL for the image that the user wants to upload.
area_of_interest	String	This field will consist of the area of interest that user has entered.

2. **Credentials Collection:**
   This credentials collection is use for storing all the user login details which they would require while logging to their account every time. The credentials collection would be like the sample object design as below:

   Credentials Document Object
   {
       _id : "an uuid",
       email : "user email id",
       password : "user password"
   }

   Example
   {
       "_id":" 7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
       "email":"christina@stevens.edu",
       "password": "encrypted-password"
   }

Name	Type	Description
_id	String	This consist of unique identifier generated for each user.
email	String	Email address of a particular user is stored here.
password	String	Password that the user has entered for creating the account will be stored here.

3. **Companies Collection:**
   This companies collection is use for storing all the necessary company details those who would be registered with our website. The company collection would be like the sample object design as below:

   Companies Document Object
   {
       _id : "an uuid",
       name : "company name",
       email : "company email id",
       mobile : "company contact number",
       logo : "url for company's logo",
       project_details : [] //sub collection
   }

Name	Type	Description
_id	String	A unique identifier for each company generated using uuid.

name	String	This field will store the name of the company.
email	String	The company's email address is stored here.
mobile	Number	Company's contact number will be stored here.
logo	String	The URL for the company's logo is stored in this field.
project_details	Sub Document	This is a sub collection and will have all the details regarding any project that the company is offering.

Project Details Sub-Document Object
{
        _id : "an uuid",
        name : "project name",
        description : "project description",
        area : "area or field to which this project belongs to",
        technologies_used : "technology requirements for this project",
        start_date : "project start date",
        end_date : "project end date",
        hours : "hours need to spend to this project"
}

Example

{
        "_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
        "name" : "Goldman Sachs",
        "email" : "carrer@goldmansachs.com",
        "mobile" : "201-345-673",
        "logo" : "https://commons.wikimedia.org/wiki/File:Goldman_Sachs.svg",
        "project_details" : [
        {
        "_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6311",
        "name" : "DEVELOPMENT OF DOCUMENT ROUTING SYSTEM ONLINE
                APPLICATION AND APPROVAL OF LOAN",
        "description": "An online loan website would allow AccionMFB to access online
                application, website, application information from any convenient
                location, using a single user ID and password. They would be able to do
                transactions online. The central goal of this initiative is to transform the
                day-to-day operations of the Bank by reducing paperwork; putting
                information services and transaction online; streamlining access to
                information, applicant's results and content. Making it easy for applicants
                to find and use online services, and thus increasing the likelihood that the
                Bank can attain the strategic goals laid out in this initiative. I used a
                combination of surveys, focus groups, and one-on-one interviews to gather
                information from AccionMFB, staff, and from key personnel at other
                institutions that have related system.",
        "area" : "Web Development",

"technologies_used": ["HTML","CSS","MONGODB"],
"start_date" : "04/12/2018",
"end_date" : "12/12/2018",
"hours" : "150"
}]

}

Name	Type	Description
_id	String	uuid will be used to generate unique identifier for each project.
name	String	Name of the project is present in this field.
description	String	A short description regarding the functionalities of the project is present in this field.
area	String	The field or the area on which the project mainly focuses on is present here.
technologies_used	String	This field stores all the technologies that will be used in the project.
start_date	Date	The start date of the project.
end_date	Date	The end date of the project.

4. **Workspace collection:**
   This workspace collection is use for storing all the necessary workspace details those who would be registered with our website. The workspace collection would be like the sample object design as below:

Workspace Document Object
{
        _id : "an uuid",
        name : "workspace name",
        email : "workspace email id",
        mobile : "workspace contact number",
        address : "address details of workspace",
        type : "type of workspace",
        opening_hours : "time when this workspace opens",
        closing_hours : "time when this workspace closes",
        rating : "workspace rating",
        reviews : [] //Sub document
}

Name	Type	Description
_id	String	A unique identifier for the workspace.
name	String	This field will store the name of the workspace.
email	String	The email address of the workspace is stored here.
mobile	Number	Contact number of the workspace is present here.

address	String	The address for the workplace is stored here.
type	String	The type of this workspace like café, library,coffee house will be specified here.
opening_hours	String	Opening time of the workplace.
closing_hours	String	Closing time of the workplace.
rating	Number	This will describe the overall rating of the workplace based on the reviews of users.
reviews	Sub document	All the reviews regarding this workplace will be stored in this collection.

Review Details Sub-Document Object
{
    _id : "an uuid",
    name : "name of reviewer",
    email : "email of reviewer",
    comment : "comment by reviewer",
    rating : "rating by reviewer"
}

Name	Type	Description
_id	String	A unique id for each of the review will be generated using uuid.
Name	String	The name of the user writing the review will be stored here.
Email	String	Email address of the reviewer will be present here.
Comment	String	The actual review body that the user writes will be present in this field.
Rating	Number	The overall rating that the reviewer provides based on his experience is present here.

Example
{
    "_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6315",
    "name" : "HotCoffee",
    "email" : "service@hotcoffee.com",
    "mobile" : "551-456-3256",
    "address" : "234, Cvr avenue, union city, New Jersey 07895",
    "type" : "Coffee shop",
    "opening_hours" : "0900 hrs",
    "closing_hours" : "2200 hrs",

```
        "rating" : "4.5",
        "reviews" : [
                {
                        "_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6316",
                        "name" : "Robert Dias",
                        "email" : "robertd@gmail.com",
                        "comment" : "Peaceful place to work in",
                        "rating": "4.4"
                },
                {
                        "_id" : "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6317",
                        "name" : "Michelle Alva",
                        "email" : "michelle@gmail.com",
                        "comment" : "Good place",
                                "rating" : "4.0"
                }
        ]
    }
```