MongoDB schema

.

Jobs:

```
db.createCollection("jobs",
{
    validator:
    {
        $jsonSchema:
        {
            bsonType : "object",
            title: "jobs",
            required: ["position","company","industry","recruiting_status"],
            description: "This document is a collection  of all the jobs",
            properties:
            {
                position:
                {
                    description: "name of the job position",
                    bsonType: "string",
                    minLength:1
                },
                company:
                {
                    description: "name of the company",
                    bsonType: "string",
                    minLength:1
                },
                industry:
                {
                    description: "type of industry of the company",
                    bsonType: "string",
                    minLength:1
                },
                job_description:
                {
```

```
            description: "Description of the job profile",
            bsonType: "string",
            minLength:1
        },
        job_requirement:
        {
            bsonType: "string",
            minLength:1
        },
        recruiting_status:
        {
            bsonType:"bool",
        },
        salary:
        {
            bsonType: "string",
            minLength:1
        },
        applicants:
        {
            bsonType: "array",
            items:
            {
                description: "List of applicants",
                bsonType: "objectId"
            },
            uniqueItems: true
        },
      },
    },
  },
  validationLevel: "strict",
  validationAction: "error",
})
```

Hashtags:

```
db.createCollection("hashtags",
{
    validator:
    {
        $jsonSchema:
        {
            bsonType : "object",
            title: "hashtags",
            required: ["name","posts"],
            description: "This document is a collection  of the hashtags used in posts",
            properties:
            {
                name:
                {
                    description: "name of the hashtag used",
                    bsonType: "string",
                    minLength:1
                },
                posts:
                {
                    bsonType: "array",
                    items:
                    {
                        description: "List of post_ids with this hashtag used",
                        bsonType: "objectId"
                    },
                    minItems: 1,
                    uniqueItems: true
                },
                no_of_posts:
                {
                    bsonType: "int"
                },
```

```
        },
        followers:
          {
              bsonType: "array",
              items:
              {
                  description: "List of followers",
                  bsonType: "objectId"
              },
              uniqueItems: true
          },
      },
    },
    validationLevel: "strict",
    validationAction: "error",
})
```

Pages:

```
db.createCollection("pages",
{
    validator:
    {
      $jsonSchema:
      {
        bsonType : "object",
        title: "pages",
        required: ["name"],
        description: "This document is a collection all pages on Linkedin",
        properties:
        {
          name:
          {
              description: "name of the page",
              bsonType: "string",
              minLength:1,
              uniqueItems: true
```

```
},
profile_photo:
{

   bsonType: "string",
   minLength:1

},
wall_photo:
{
   bsonType: "string",
   minLength:1
},
description:
{
   bsonType: "string",
   minLength:1
},
contact_info:
{
   bsonType:"object",
   properties:
   {
      email:
      {
         bsonType: "string",
         minLength:1
      },
      phone_no:
      {
         bsonType: "array",
         items:
         {
            description: "List of phone numbers",
            bsonType: "string"
         },
         minItems: 1,
```

```
                    uniqueItems: true
            },
            url:
            {
                bsonType: "string",
                minLength:1

            },
            address:
            {
                bsonType: "string",
                minLength:1
            },
        },
    },
    followers:
    {
        bsonType: "array",
        items:
        {
            description: "List of followers",
            bsonType: "objectId"
        },

        uniqueItems: true
    },
    posts:
    {
        bsonType: "array",
        items:
        {
            bsonType: "objectId"
        },
        uniqueItems: true
    },
    jobs:
    {
```

```
        bsonType: "array",
        items:
        {
            bsonType: "objectId"
        },

        uniqueItems: true
    },
    affiliated_pages:
    {
        bsonType: "array",
        items:
        {
            bsonType: "objectId"
        },
        uniqueItems: true
    },
    about:
    {
        bsonType:"object",
        properties:
        {
            industry:
            {
                bsonType: "string",
                minLength:1
            },
            locations:
            {
                bsonType: "array",
                items:
                {
                    description: "List of locations",
                    bsonType: "string"
                },
                minItems: 1,
                uniqueItems: true
```

```
            },
            website:
            {
                bsonType: "string",
                minLength:1

            },
            sector_type:
            {
                bsonType: "string",
                minLength:1
            },
            company_size:
            {
                bsonType: "string",
                minLength:1
            },
            specialities:
            {
                bsonType: "string",
                minLength:1

            },
          },
        },
      },
    },
  },
  validationLevel: "strict",
  validationAction: "error",
})
```

Users:

```
db.createCollection("users",
{
  validator:
  {
```

```
$jsonSchema:
{
    title: "user",
    description:"This is the collection of all the users of MyLinkedin",
    bsonType: "object",
    properties:
    {
        user_id:
        {
            description: "unique username of the user over myLinkedIn",
            bsonType: "string",
            minLength: 1,
            uniqueItems:true,
        },
        name:
        {
            description: "name of the user",
            bsonType: "string",
            minLength: 1,
        },
        email_id:
        {
            description: "email-id of the user",
            bsonType: "string",
        },
        password:
        {
            description: "Security password of the user",
            bsonType: "string",
        },
        connections:
        {
            bsonType: "array",
            items:
            {
                bsonType: "object",
                required: ["user_id","mute_status"],
```

```
    properties:
    {
      user_id:
      {
        bsonType: "objectId",
      },
      mute_status:
      {
        bsonType: "bool",
      },

    },
  },
},
contact_info:
{
  bsonType: "object",
  properties:
  {
    email:
    {
      bsonType: "string",
    },
    url:
    {
      bsonType: "string",
    },
  },
},
introduction:
{
  description: "description  of the page",
  bsonType: "string",
  minLength:1,
},
pages_followed:
{
```

```
      bsonType: "array",
      items:
      {
        description: "List of page_ids of pages which are followed by the user",
        bsonType: "objectId",
      },
      minItems: 1,
      uniqueItems: true,
   },
   profile_photo:
   {
      description: "URL of the profile photo",
      bsonType: "string",
   },
   wall_photo:
   {
      description: "URL of the wall photo",
      bsonType: "string",
   },
   country:
   {
      description:"Country in which user is residing",
      bsonType: "string",
   },
   skills:
   {
      description: "A list of skills of the user",
      bsonType: "array",
      items:
      {
        bsonType: "string",
        uniqueItems: true,
      },
   },
   industry:
   {
      description:"industry in which user is working ",
```

```
        bsonType:"string",
    },
    accomplishments:
    {
        bsonType: "object",
        properties:
        {
            projects:
            {
                bsonType: "array",
                items:
                {
                    bsonType: "object",
                    properties:
                    {
                        title:
                        {
                            bsonType: "string",
                        },
                        start_date:
                        {
                            bsonType: "date",
                        },
                        end_date:
                        {
                            bsonType: "date",
                        },
                        association:
                        {
                            bsonType: "string",
                        },
                        description:
                        {
                            description: "description  of the page",
                            bsonType: "string",
                            minLength:1,
                        },
```

```
          project_url:
            {
              bsonType: "string",
            },
        },
      },
    },
    courses:
    {
      bsonType: "array",
      items:
      {
        bsonType: "object",
        required:["course_name","course_code"],
        properties:
        {
          course_name:
          {
            bsonType: "string",
          },
          association:
          {
            bsonType: "string",
          },
          course_code:
          {
            bsonType: "string",
          },

        },
      },
    },
    patents:
    {
      bsonType: "array",
      items:
      {
```

```
bsonType: "object",
required:["patent_title","patent_no","patent_office"],
properties:
{
  patent_title:
  {
    bsonType: "string",
  },
  patent_no:
  {
    bsonType: "int",
  },
  patent_office:
  {
    bsonType: "string",
  },

},
},
},
publications:
{
  bsonType: "array",
  items:
  {
    bsonType: "object",
    properties:
    {
      title:
      {
        bsonType: "string",
      },
      publication_date:
      {
        bsonType: "date",
      },
      coauthor:
```

```
          {
            bsonType: "string",
          },
          description:
          {
            description: "description  of the page",
            bsonType: "string",
            minLength:1,
          },
          publication_url:
          {
            bsonType: "string",
          },
          publisher:
          {
            bsonType: "string",
          },
        },
      },
    },
  },
  test_scores:
  {
    bsonType: "array",
    items:
    {
      bsonType: "object",
      properties:
      {
        title:
        {
          bsonType: "string",
        },
        date:
        {
          bsonType: "date",
        },
        association:
```

```
            {
              bsonType: "string",
            },
            description:
            {
              description: "description  of the score",
              bsonType: "string",
              minLength:1,
            },
            score:
            {
              bsonType: "int",
            },
            max_score:
            {
              bsonType: "int",
            },
          },
        },
      },
      languages:
      {
        bsonType: "array",
        items:
        {
          bsonType: "object",
          properties:
          {
            language:
            {
              bsonType: "string",
            },
            profeciency_level:
            {
              bsonType: "int",
            },
          },
```

```
            },
          },
        },
      },
      background:
      {
        bsonType: "object",
        properties:
        {
          work_exp:
          {
            bsonType: "array",
            items:
            {
              bsonType: "object",
              properties:
              {
                title:
                {
                  bsonType: "string",
                },
                start_date:
                {
                  bsonType: "date",
                },
                end_date:
                {
                  bsonType: "date",
                },
                company:
                {
                  bsonType: "string",
                },
                description:
                {
                  description: "description  of the job",
                  bsonType: "string",
```

```
          minLength:1,
        },
        working_status:
        {
          bsonType: "bool",
        },
        industry:
        {
          bsonType: "string",
        },
        location:
        {
          bsonType: "string",
        },
        emp_type:
        {
          bsonType: "string",
        },
      },
    },
  },
education:
{
  bsonType: "array",
  items:
  {
    bsonType: "object",
    properties:
    {
      degree:
      {
        bsonType: "string",
      },
      start_date:
      {
        bsonType: "date",
      },
```

```
                    end_date:
                    {
                        bsonType: "date",
                    },
                    school_name:
                    {
                        bsonType: "string",
                    },
                    description:
                    {
                        description: "description  of the degree",
                        bsonType: "string",
                        minLength:1
                    },
                    cgpa:
                    {
                        bsonType: "double",
                    },
                    field_of_study:
                    {
                        bsonType: "string"
                    },
                },
              },
            },
          },
        },
      },
    },
  },
  validationLevel: "strict",
  validationAction: "error",
})
```

Posts:
```
db.createCollection("posts",
  {
```

```
validator:
{
    $jsonSchema:
    {
        title: "posts",
        description:"This is the collection of all the posts created by the users",
        bsonType: "object",
        required: ["user","media","description"],
        properties:
        {
            user:
            {
                description: "user_id of the user who created the post",
                bsonType: "string"
            },
            hashtags:
            {
                description: "name of the company with job vacancy",
                bsonType: "array",
                items:
                {
                    bsonType: "string"
                },
            },
            tagged_users:
            {
                description: "A list of users tagged in the post",
                bsonType: "array",
                items:
                {
                    bsonType: "string"
                },
            },
            time:
            {
                bsonType: "date"
            },
```

```
likes:
{
    bsonType: "array",
    items:
    {
        bsonType: "string"
    },
},
comments:
{
    bsonType: "array",
    items:
    {
        bsonType: "object",
        properties:
        {
            user_id:
            {
                bsonType:"string",
            },
            likes:
            {
                bsonType: "array",
                items:
                {
                    bsonType: "string"
                },
            },
            time:
            {
                bsonType: "date"
            },
            text:
            {
                bsonType:"string",
                minLength:1
            },
```

```
                    },
                  },
                },
                media:
                {
                    description: "list of URL of media",
                    bsonType: "array",
                    items:
                    {
                        bsonType: "string"
                    },
                },
                description:
                {
                    description: "Caption for the post",
                    bsonType: "string"
                },
                visibility:
                {
                    description:"decide the visibility of this post",
                    bsonType:"bool"
                },
            },
          },
        },
      validationLevel: "strict",
      validationAction: "error",
    })
```