

TLMS Schema Design

NOTE: All the letters in collection attributes are lowercase letters

```
User
{
  "_id" : ObjectID(),
  "Schema_ver" : Integer,
  "Name" : String,
  "Email" : String,
  "Phone_number" : String,      // 10 digits
  "Courses" : [String]
}
```

```
Course
{
  "_id" : ObjectID()
  "Creator_id" : String,
  "Invite_code" : String,
  "course_desc" : String,
  "Schema_ver" : Integer,
  "Name" : String,
  "Live_class_link" : String,
  "Posts" : [String]           // list of post_id
}
```

```
Post
{
  "_id" : ObjectID(),
  "Post_Title" : String,
  "Post_text" : String,
  "Creator_ID" : String,
  "Files" : [String],
  "Creation Date": timestamp,
  "Assignment_ID" : String
  "Comments" : [
    {
```

```

        "Commentator_ID" : String,
        "Timestamp" : timestamp,
        "Comment_text" : String
    }
]
}

```

```

File
{
    "_id" : ObjectID(),
    "Schema_ver" : Integer,
    "Creator_ID" : String,
    "Course_ID" : String,
    "File_format" : String,
    "File_url" : String
}

```

```

Assignment
{
    "_id": ObjectID(),
    "Schema_ver" : Integer,
    "Creator_ID": String,
    "Deadline": timestamp,
    "Sample Solution URL": String,          //optional
    "Submissions" :
    [
        {
            "Student_ID" : String,
            "Submission URL": [String],
            "Timestamp" : timestamp
        }
    ]
}

```