Models (DB design)

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| Version | Date | Author | Change |
| 1.0 | 28/3/2013 | Nitin Dhaware | Initial draft |

# Models

**Note: Star (\*) denotes Required. Colon ‘:’ Denotes data type.**

## User

Attributes:

1. Email/ User name (\*). :String.
2. Password, confirmPassword (\*). :String.
3. Role (Guest, Student and admin). May contributor (\*). :String.

## Profile

Attributes:

1. First name (\*). :String.
2. Last name. :String.
3. Nick name. :String.
4. Permanent address (\*). :String.
5. Local address. :String
6. Country (\*). :String
7. State (\*). :String.
8. City (\*). :String.
9. Contact number (\*). It could be mob/ landline. :Number.
10. Date of birth. :Date.
11. Facebook. :String.
12. Twitter handle. :String.
13. Photo.

## Course

Attributes:

1. Name (\*). :String.
2. Short name. :String.
3. Description (\*). :String.
4. Index. :Hash.
5. CourseDate (\*). May not be visible for the users except Admin. :Date.
6. Course period. :Boolean.
7. StartDate (\*). :Date.
8. EndDate (\*). :Date.

## Part

Attributes:

1. Part number (\*). It can be stored as roman letters. :String.
2. Name (\*). :String.
3. Description. :String.

## Chapter

1. Chapter\_Number (\*). :Number.
2. Name (\*). :String.
3. Description. :String.

## Topic

Attributes:

1. topic\_number (\*). Would be chapter number.Topic number. E.G. Chapter 1: 1.1, 1.2, 1.2.1 ETC. :Float.
2. Title (\*). :String.
3. Sub-Topic can be maintained using self references.

## Content

**TBD.**

Attributes:

1. Content\_body (\*). :String.
2. Content\_type (\*). Can be polymorphic.

## Question

**TBD.**

Attributes:

## Request/ Issue.

Attributes:

1. Title (\*). :String.
2. Body (\*). :String.
3. Status (\*). :String.

## Comment

Attributes:

1. Description (\*). :String.

# Relationships

1. User has many Courses.
2. Course has many users.
3. Course has many parts.
4. Part belongs to a Course.
5. Part has many chapters.
6. Chapter belongs to a part.
7. Chapter has many topics.
8. Topic belongs to a chapter.
9. Topic has a Content.
10. Content has a Topic.
11. User has many Requests.
12. Request belongs to a User.
13. Request has many Comments.
14. Comment belongs to a Request.
15. Profile embedded\_in User.
16. User embeds\_one Profile.