Design

**Entities**

User Role:

* Id (PK)
* Description – varchar(75)

Rank

* Id (Pk)
* Description – varchar(100)

Country

* Id (PK)
* Country

Location

* Id (PK)
* City – Varchar(100) Nullable
* Country – (FK -> Country.Id)

Language

* Id
* Description

User

* Id (PK)
* First Name – varchar(150)
* Last Name – varchar(150)
* Display Name – varchar(150)
* Rank – (FK -> Rank.Id)
* Score - int
* User Role (FK -> UserRole.Id)
* Email – varchar(250)
* Password – varchar(200)
* Language Pref – (FK -> Language.Id)
* CreateDate – Date
* ModifiedDate - Date

Difficulty

* Id
* Description

Kata

* Id (PK)
* Title - Varchar (250)
* Description – nvarchar
* Difficulty – (FK -> Diffuclty.Id)
* Language – Varchar(30)
* CreateDate – Date
* Create\_User – (FK -> User.Id)
* ModifiedDate – Date
* Modified\_User – (FK -> User.Id)

Answer

* Id (PK)
* Kata (FK -> Kata.Id)
* Language – Nullable unless Kata.Language is Null - VARCHAR(30)
* Answer – Nvarchar
* Description - Nvarchar
* Score - Int
* CreateDate – Date
* Create\_User – (FK -> User.Id)
* ModifiedDate – Date
* Modified\_User – (FK -> User.Id)

Comment

* Id (PK)
* Score – int
* Comment – nvarchar
* CreateDate – Date
* Create\_User – (FK -> User.Id)
* ModifiedDate – Date
* Modified\_User – (FK -> User.Id)

KataComment

* Id (PK)
* Kata (FK -> Kata.Id)
* Comment (FK -> Comment.Id)

AnswerComment

* Id (PK)
* Answer (FK -> Answer.Id)
* Comment – (FK -> Comment.Id)
* User Roles
* User
* Kata -> Comments (Associated with User)
* Answer -> Comments (Associated with User)