Chapter 5: Data Modeling

Noun	Attributes	Description	Remarks
Student	Name, roll, email, password, list(event url)	Potential Data Object	Accepted
Name		An Attribute of Student, Teacher, Admin	Rejected
Email		An Attribute of Student, Teacher, Admin	Rejected
Password		An Attribute of Student, Teacher, Admin	Rejected
Roll		An Attribute of Student	Rejected
Admin	Name, designation, email, password, list(event url)	Potential Data Object	Accepted
Teacher	Name, designation, email, password, list(event url)	Potential Data Object	Accepted
Designation		An Attribute of Teacher and Admin	Rejected
Event	Event url, name, description, list (sub-event), start date, duration, notification	Potential Data Object	Accepted
Description		An Attribute of Teacher, Admin and Event	Rejected
Start date		An Attribute of Event	Rejected
Duration		An Attribute of Event	Rejected
Sub-Event	Name, start, duration, notification	Potential Data Object	Accepted
Template	Template url, name, list(sub event of template), duration	Potential Data Object	Accepted
Sub Event of Template	Name, start, duration	Potential Data Object	Accepted

5.3 Data Objects and Attributes

This is a brief view of all attributes I have found so far.

Student = Name + Email + Roll+ Password +list (event url)

Admin = Name + Email + designation + Password + list (event url)

Teacher = Name + Email + designation + Password + list (event url)

Event = event url + name + description + list(sub-event) + duration + start date + notification

Sub-Event = name + description + duration + start date + notification

Template = template url + name +list(Sub event of template) + duration

Sub event of template = name + start + duration

Student

Attributes	Types
Name	Varchar (30)
Roll	Int (10)
Email	Varchar (30)
Password	Varchar (30)
List<Event url>	

Admin

Attributes	Types
Name	Varchar (30)
Designation	Varchar (30)
Email	Varchar (30)
Password	Varchar (30)
List<Event url>	

Teacher

Attributes	Types
Name	Varchar (30)
Designation	Varchar (30)
Email	Varchar (30)
Password	Varchar (30)
List<Event url>	

Event

Attributes	Types
Event url	Varchar (30)
Name	Varchar (30)
description	Varchar (500)
duration	Int (10)
start date	Date
notification	Boolean
list< Sub event>	

Sub-Event

Attributes	Types
Name	Varchar (30)
description	Varchar (30)
duration	Int (10)
start	Date
notification	Boolean

Template

Attributes	Types
Template url	Varchar (30)
Name	Varchar (30)
duration	Int (10)
list<Sub event of template>	

Sub event of template

Attributes	Types
Name	Varchar (30)
Start	Int (10)
Duration	Int (10)

5.4 Relationship Between Data Objects

Here we have shown pair wise relation between two entities.

Admin	View, create, remove	Teacher

Admin	View, create, remove, approve	Student

Admin	Create, remove, update, ownership	Event

Admin	Create, remove, update, ownership	Sub Event

Admin	Create, remove, update, view	Template

Admin	Create, remove, update, view	Sub Event of Template

Teacher	Create, remove, update, ownership	Event

teacher	Create, remove, update, ownership	Sub Event

teacher	Use	Template

Teacher	Use	Sub Event of Template

Student	Create, remove, update, ownership	Event

Student	Create, remove, update, ownership	Sub Event

Student	Use	Template

Student	Use	Sub Event of Template