**Classes**

1. Accounts (Username(PK), Email (PK), Password, Type (Read Only), Admin, Author, Student/ Login, Sign Up, Email Verification, Username Verification, Display)
2. Student (ID(PK), Username(FK), Name, Phone no, Address, Postal Code, Card Number, Card Expiry, CSV, Status/)
3. University (ID(PK), Name, Type, Description, Department List /)
4. Department (Name, Degree List/)
5. Degree (Name, Merit, Duration, Merit Calculation Formula/)
6. Admin (ID(PK), Username(FK) Name, Email, University U, Author A/ Display Admin Menu, Add U, Delete U, Update U, Read U, Add Admin, Update Admin, Delete Admin, Add A, Update A, Delete A)
7. Author (ID(PK), Username(FK) Name, Email, Blog B, Playlist P/Display Author Menu, Add B, Delete B, Update B, Read B, Add P, Delete P, Update P, Read P)
8. Blog (ID(PK), Title, Category, Publish Date, Description/)
9. Playlist (ID(PK), Title, Category, Publish date, Small Description, Videos /)
10. Payment Management (Student S/ Status Update, Tax Calculation, Total amount, Payment Verification)
11. Aggregate Calculation (Academic Records, University List/ List Generation, Calculate Aggregate, Sort List)
12. Academic Records (Inter Marks, Metric Marks, Field, Entrance Test List/)
13. Entrance Test (Name, Total Marks (Read Only), Marks /)

**Relations:**

1. Account -> Student, Admin, Author (1 to1)
2. University -> Department (1 to 1…\*)
3. Department -> Degree (1 to 1…\*)
4. Admin -> University, Author (1 to 1)
5. Author -> Blog, Playlist (1 to 1)
6. Payment Management -> Student (1 to 1)
7. Aggregate Calculation- > University (1 to 1…\*)
8. Aggregate Calculation- > Academic Records (1 to 1)
9. Academic Records -> Entrance Test (1 to 1…\*)

**Architechure:**

**Use Case: Single Post Preview**

**Primary Actor: Student**

**Precondition: Blog post is added by author and displayed on page.**

**Scenarios:**

1. **Student selects the post**
2. **Title, meta data and description of the post is fetched from DB**
3. **All the data set in Template page**
4. **Rendered page is displayed to the Student**

**Post Condition:**

**Business:**

**Aggregate Calculation**

**Primary Actor: Student**

**Preconditions: Student has account and logged in.**

**Scenarios:**

1. **Student fill academic record details**
2. **Student press Submit Button**
3. **System will calculate aggregate according to each University.**

**Post Condition:**

**A list of Universities is created and displayed to student if he/she have some package.**

**Risk:**

**Purchase Package**

**Primary Actor: Student**

**Pre-Condition:**

**Student should have account and is logged in**

**Scenarios:**

1. **Select Package**
2. **Fill Card Details**
3. **Press Checkout**
4. **Verify by entering OTP**

**Post-Condition:**

**Package Status will be updated for student**