**E-learning web portal on machine learning, deep learning, and artificial intelligence courses**

Level 0 (Context diagram)

E-learning web

portal

Teacher

Student

Admin

Level 1 (Home)

Home

1

Student

Registration

1

Admin

Registration

1

Teacher

Registration

Login

D4

Admin

Registration

D3

Student

Registration

D2

Teacher

Registration

D1

News

1

Teacher/Student/Admin

Login

1

Guests

Contact

1

Teacher/Student/Guests

Add

blogs

2

Admin

Approve/Reject

Blogs

D5

Teacher\_introduction\_

brief

About

D6

Subject

D7

Level 1 (Teacher)

Teacher

1

Password

Request To Reset

1

Profile

Edit/

Delete

1

Subjects

Add/Delete/

Update

1

Exam

Shedule

Exam

1

Student

Booked

Reject/

Accept

1

Messages

Send

Messages

D8

Teacher

Registration

D1

Subject

D7

Course\_Chapter

D9

Course\_Chapter\_

Content

D10

Enrollment

D11

Exam

D12

Requests

D13

Login

D4

Teacher

Registration

D1

2

Admin

Approve/

Reject

1

Session

Logout

Logout

Home

Level 1 (Student)

Student

1

Password

Request To Reset

1

Profile

Edit/

Delete

1

Feedback

Sending Feedback

1

Exam

Attending

Exam

1

Course

Course

Registration

1

Messages

Send

Messages

D8

Student

Registration

D2

Feedback

D14

Learning Progress

D15

Exam Results

D17

Requests

D13

Login

D4

Student

Registration

D2

2

Admin

Approve/

Reject

1

Session

Logout

Logout

Home

Enrollment

D11

Exam

D12

Certificate

D16

Level 1 (Admin)

Admin

1

Course\_Chapter

Edit/Delete/Update

1

Profile

Edit/

Delete

1

Certificate

Upload

1

Subject

Edit/Delete/Update

1

Password

Approve

Reject

1

Messages

Send

Messages

D8

Admin

Registration

D3

Certificates

D16

Login

D4

Subject

D7

Course

Chapter

D9

1

Session

Logout

Logout

Home

Requests

D13

Teacher/Student

Registration

D1/D2

A

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e

1

Course

Chapter

Content

Edit/Delete/Update

Course

Chapter Content

D10

1

Student/

Teacher

Block/Allow

Login

D4