Online Classroom

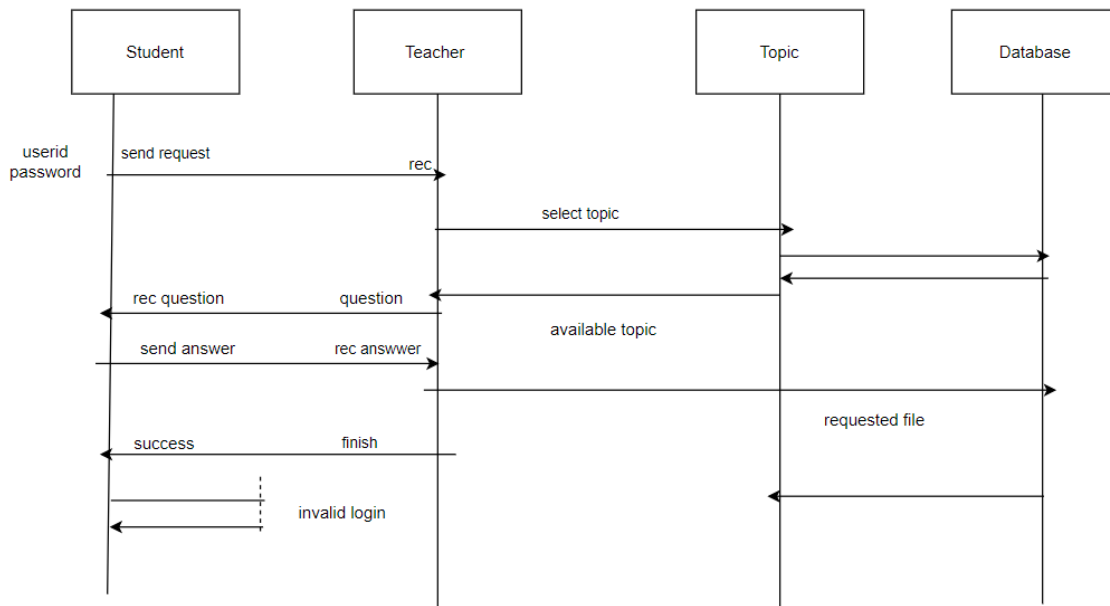*Md. Ridwan Sarker Turza*
2017-2-60-135
Course Code: CSE435, Section:2, Fall 2020

Introduction:

Online classroom is an online based system that is made for teachers and students. This system is very helpful most especially if anyone wants to make online lessons, activities and also make quizzes. Using this system, the teacher can freely set activities based on the lesson that they want to teach. Teachers can upload lecture videos and pdf files. They can create Quizzes and set questions for that. Teachers can add a student in their classroom. Students can login in the portal by using their username and password. They can watch the lecture videos and read the pdf file that the instructor uploaded.

Analysis of Sequence Diagram

Taking quiz Sequence Diagram:

FSP Code

STUDENT = (send_request -> rec_question -> send_answer -> success -> close -> STUDENT).
TEACHER = (rec_request -> send_question -> rec_answer -> finish -> close -> TEACHER).

STUDENT = (send_request -> rec_question -> send_answer -> success -> close -> STUDENT).
TEACHER = (rec_request -> send_question -> rec_answer -> finish -> close -> TEACHER).
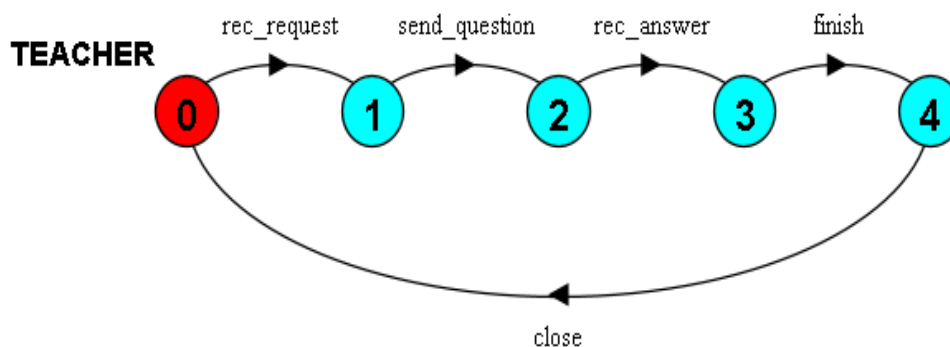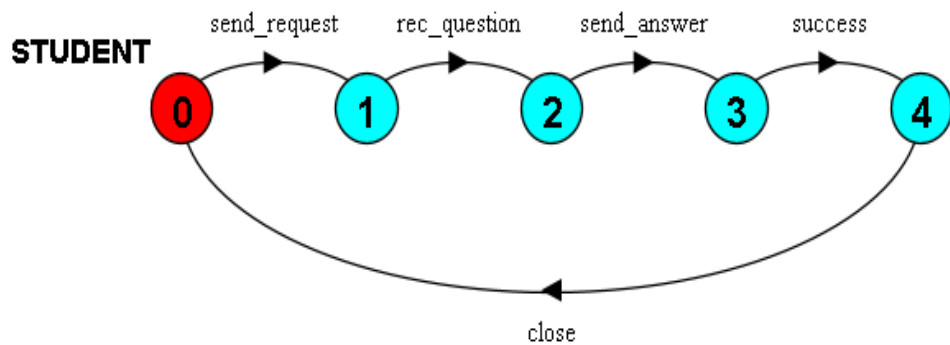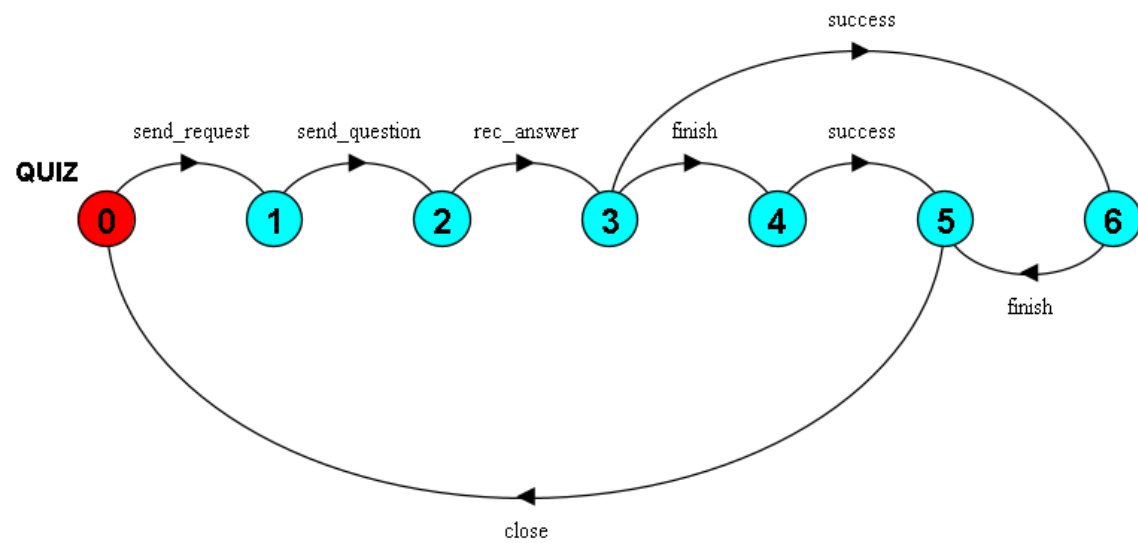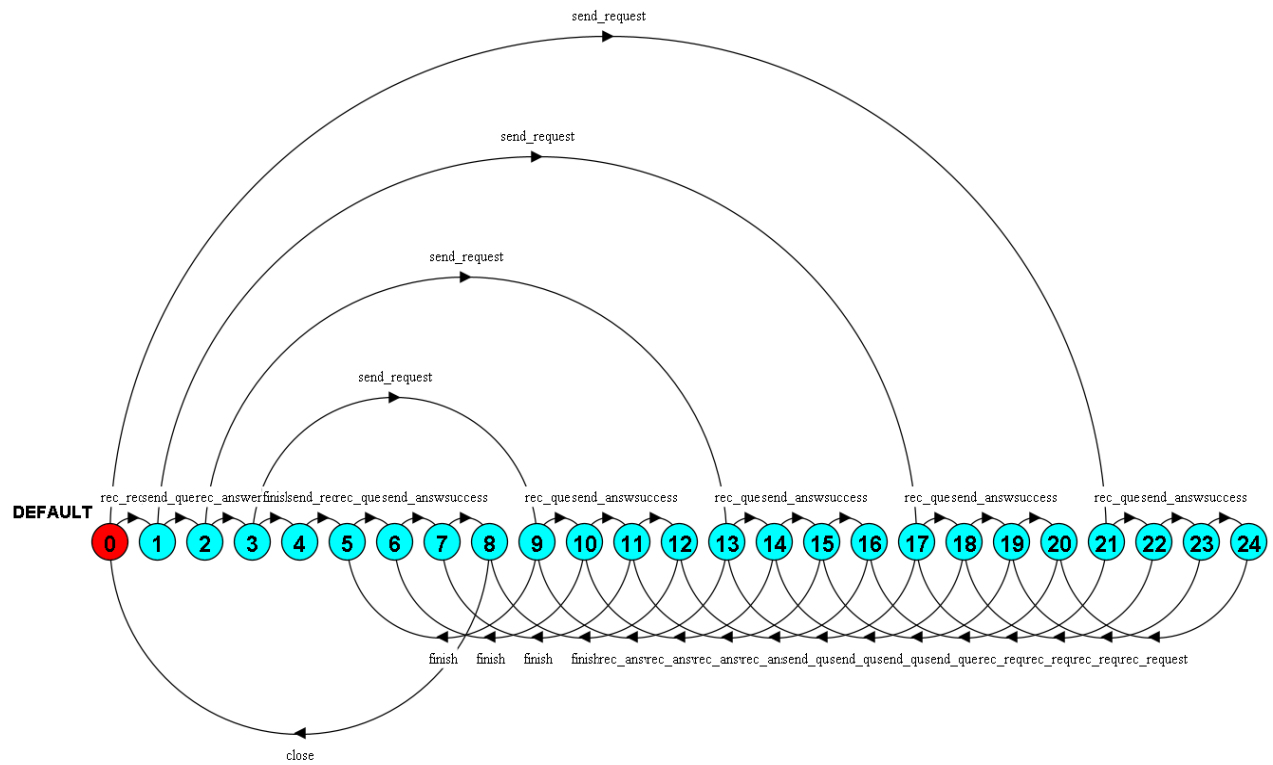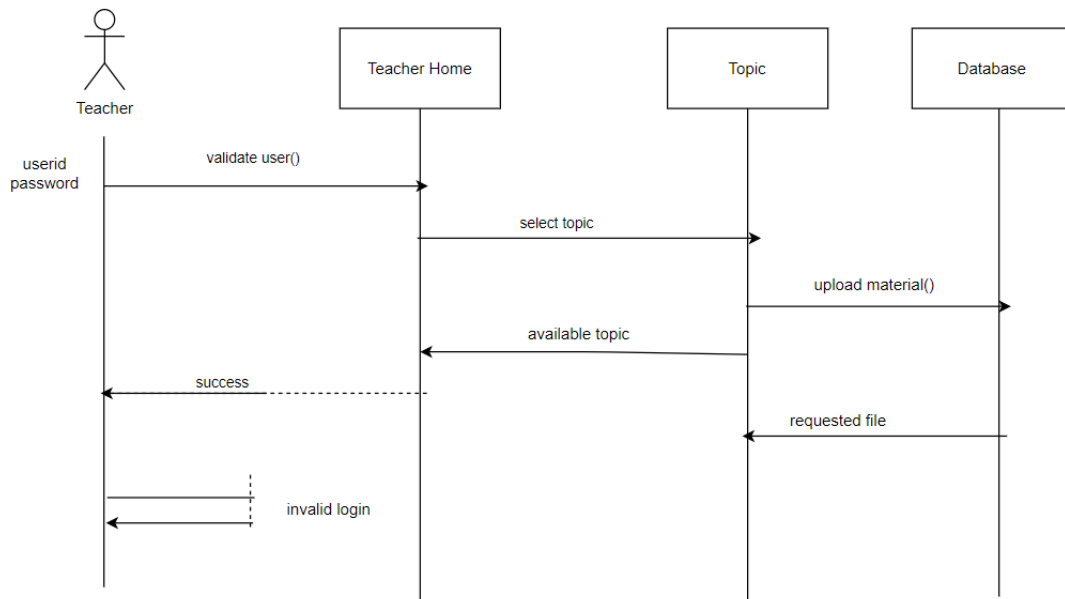
|| QUIZ = (STUDENT || TEACHER)
    /{send_request/rec_request, send_question/rec_question, rec_answer/send_answer}.

Analysis Diagram

send_request

send_request

send_request

send_request

DEFAULT

rec_re send_que rec_answer finish send_re rec_que send_answ success   rec_que send_answ success   rec_que send_answ success   rec_que send_answ success   rec_que send_answ success

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

finish finish finish finish rec_ans rec_ans rec_ans rec_ans send_qu send_qu send_qu send_que rec_req rec_req rec_req rec_request

close

QUIZ

success

send_request   send_question   rec_answer   finish   success

0   1   2   3   4   5   6

finish

close

Upload Material Sequence Diagram:

FSP Code

TEACHER= (send_request -> display->TECHER).
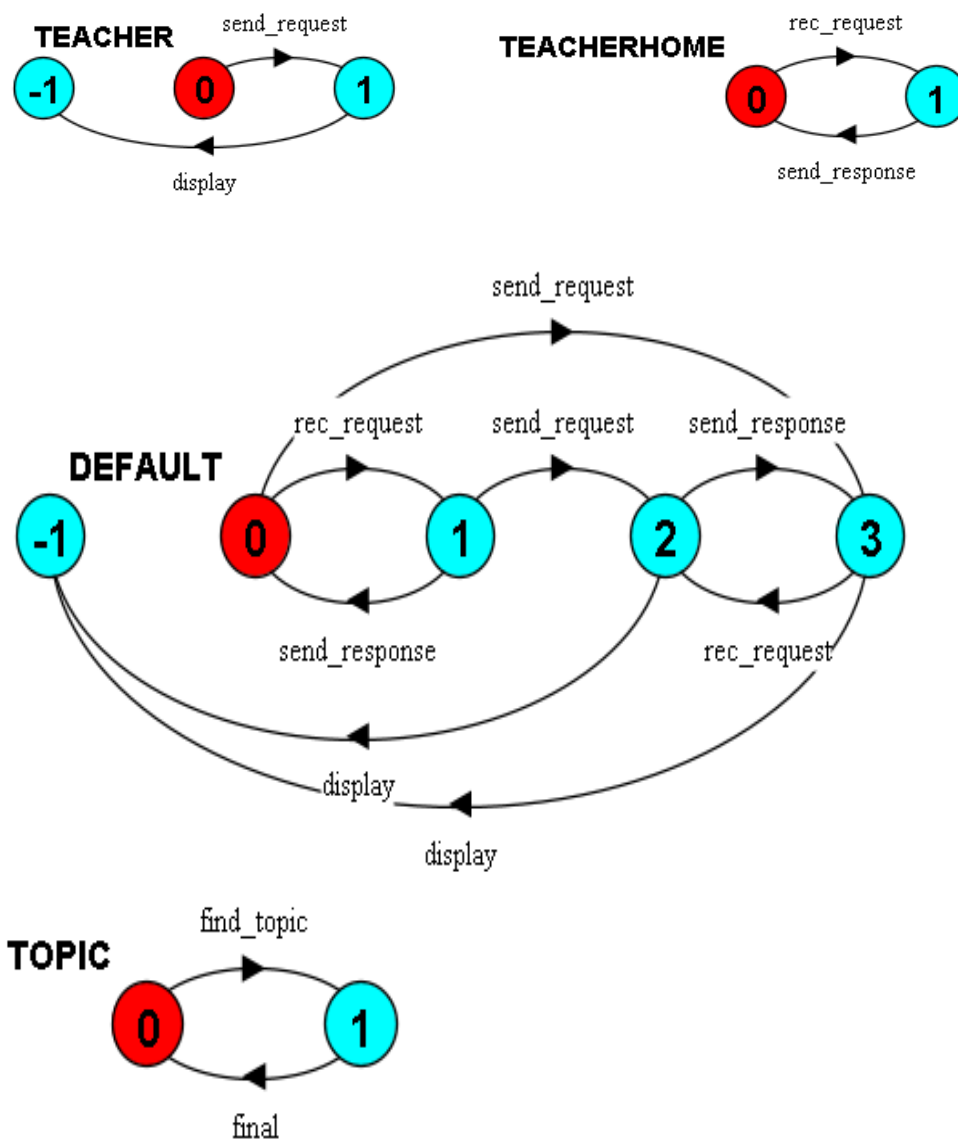
TEACHERHOME = (rec_request -> send_response ->>TEACHERHOME).
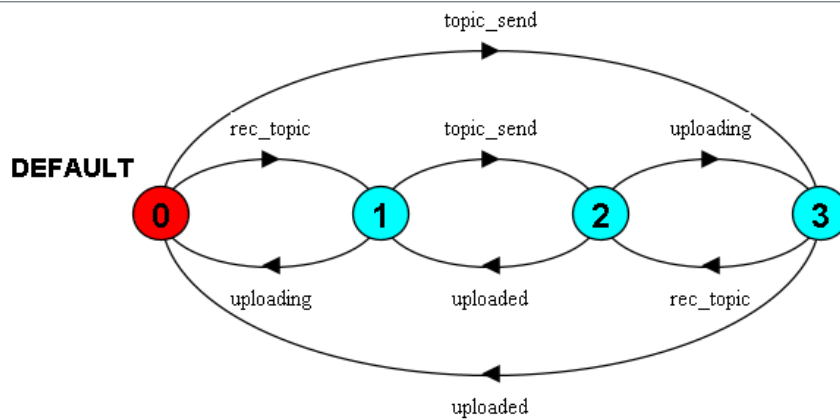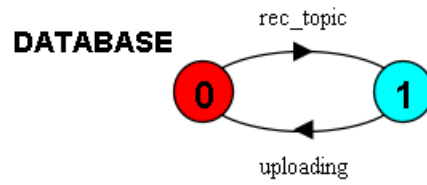
TEACHERHOME = (req_topic -> rec_response ->>TEACHERHOME).

TOPIC = (find_topic -> final -> TOPIC).

TOPIC = (topic_send -> uploaded -> TOPIC).

DATABASE = (rec_topic -> uploading ->DATABASE).

Analysis Diagram

TEACHER

send_request

-1   0   1

display

TEACHERHOME

rec_request

0   1

send_response

DEFAULT

send_request

rec_request   send_request   send_response

-1   0   1   2   3

send_response

rec_request

display

display

TOPIC

find_topic

0   1

final

TEACHERHOME

req_topic

0 → 1

rec_response

DEFAULT

find_topic

req_topic | find_topic | rec_response

0 — 1 — 2 — 3

rec_response | final | req_topic

final

TOPIC

topic_send

0 → 1

uploaded

DATABASE

rec_topic

0 → 1

uploading

DEFAULT

topic_send

rec_topic | topic_send | uploading

0 — 1 — 2 — 3

uploading | uploaded | rec_topic

uploaded

View lecture Materials Sequence Diagram:

FSP Code

STUDENT= (send_request -> display->STUDENT).
STUDENTHOME = (rec_request -> send_response ->STUDENTHOME).

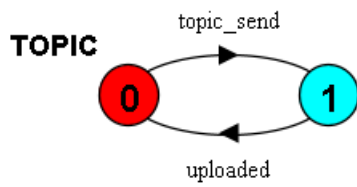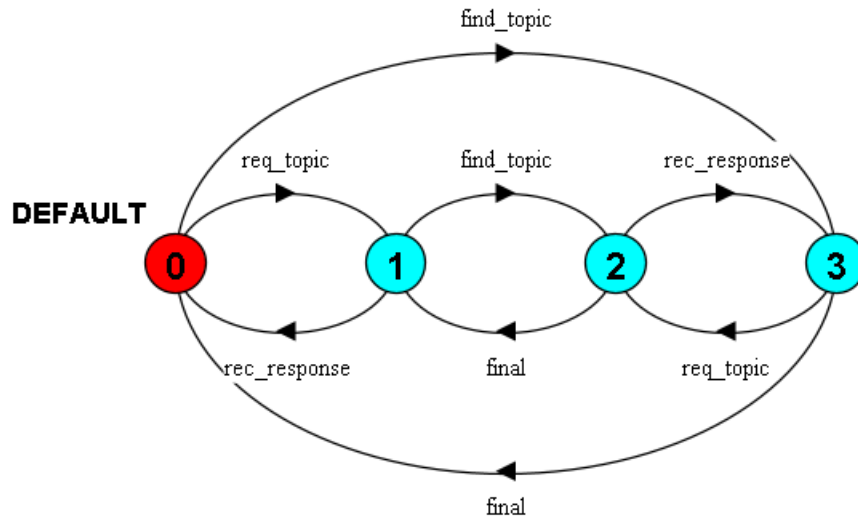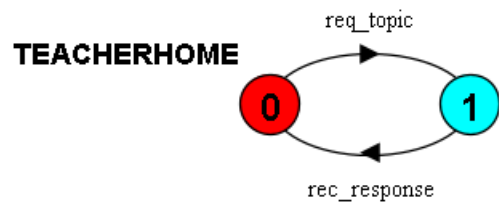STUDENTHOME = (req_topic -> rec_response ->STUDENTHOME).
TOPIC = (find_topic -> final -> TOPIC).
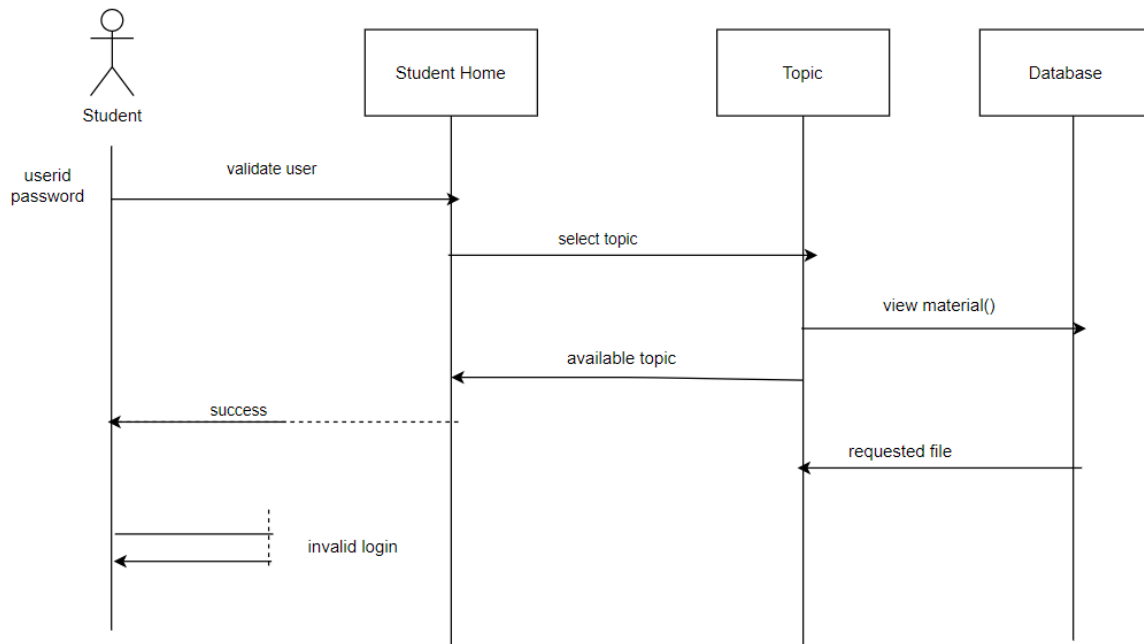
TOPIC = (topic_opened -> view -> TOPIC).
DATABASE = (req_rec -> opening ->DATABASE).

Analysis Diagram

STUDENT

send_request

display

STUDENTHOME

rec_request

send_response

DEFAULT

find_topic

req_topic   find_topic   rec_response

rec_response   final   req_topic

final

DEFAULT

topic_opened

req_rec   topic_opened   opening

opening   view   req_rec

view