

School system

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NOTE: Please remove this page when creating a Project Plan deliverable.

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Section 1. Project Overview

1.1 Project Description

The Project "School" deals with the automation of schools and the problems are :

- When diseases spread, the student who went to school stop so we should find a solution to this problem as The COVID-19 pandemic has disrupted the education of about 95 percent of students around the world
- Increasing the number of evidence bases and the difficulty of linking and dealing with them.
- Data analysis to reach the best education result.
- Benefit from educational curricula to qualify them for practical life
- **Virtual classrooms** are becoming more popular among tech-savvy pupils. These pupils have grown up with technology and favor online learning techniques that use technology to boost learning.

• Steps to solve the problems:

- Make the school system to make dealing with the data more simple
- With the school system, you can learn at home without going to school by using the Internet.
- Allows children to create their learning environment.
- You have more time to do the things you love

1.2 Project Scope

*Describe the project scope by defining what the project will and will not accomplish. Provide a narrative or bulleted list of deliverables, **services**, and/or solutions expected as outcomes of the project.*

Project includes
<i>Internal delivers</i>
<i>External delivers</i>

Internal delivers

<i>name</i>	<i>description</i>
<i>Smart school</i>	E-learning tools offer several advantages for both students and teachers. For students, e-learning tools provide access to a variety of digital resources such as interactive simulations, videos, and digital textbooks. These resources can engage students and make learning more interactive and fun. Additionally, e-learning tools can provide personalized learning

	experiences, adapting to each student's unique learning style and pace
Project Plan	Identify scope: Desktop. Schedule: 7 years Cost: 33000\$ Resource: google
Business requirement specification	Pc Data entries
<i>Communicate plan</i>	Document used to exchange messages and information with stakeholders
Maintenance plan	Model Data, server
Configuration management	Describe the Configuration management procedures and structures to be used

External delivers

Name	description
Register screen for student	They student enters the first time should enter the email and password and name of the class And his name
Register screen for teacher	The teacher enters first time should enter the email and password and your name
Teacher screen	That <i>shows</i> the teacher who <i>explains</i> the courses
Classroom screen	The screen where students see the schedule for their courses

Course screen	Screen to see description of his courses
Course screen evaluation	The screen student can evaluate the course
Teacher evaluation of the screen	Screen students can evaluate the teacher
Analysis screen	Analysis of student activity
Exam screen	Screen to take the exam for any course

Project Excludes
Mobile application

1.3 Assumptions

Assumptions
Technology
people
data

1.4 Constraints

Describe the limiting factors, or constraints, that restrict the project team's options regarding scope, staffing, scheduling, and management of the project.

Constraints
Cost is 33000\$
The time is 7years

Section 2. Project Start-Up

1.1 Project Life Cycle

phase	activity	sequence
planning	<ul style="list-style-type: none"> 1) When diseases spread ,the student who went to school stop so we should find a solution to this problem as the COVID-19 pandemic has disrupted the education of about 95 percent of students around the world 1 M to create web and application. 3 weeks for data entry 2 weeks to Mack ALGO <p>1M to load data to the cloud and code machine and prog</p>	Phase A
analysis	<p>1-gather information to learn the problem domain</p> <p>2-define system requirements</p> <p>3-prioritize requirements</p> <p>4-generate and evaluate alternatives</p> <p>5- review recommendations with management</p>	Phase B
Design	<p>1-design and integrate database</p> <p>2-design and integrate the network</p>	

	3-design the application architecture 4-design user interface 5-prototype for design details 6-design and integrate system control	
Implementation	1-construct software components 2-verify and test 3-train user and document the system 4-install the system	

2.2 Methods, Tools, and Techniques

- to make the giant chart we use the Microsoft project.
- To make the graphic user interface we need NetBeans to implement the code and we use the java
- To make the database project we need MySQL workbench, and we use the MySQL language.

$Te_{(t)} = Te_{(t-1)} + D_{(t)}$
$Tl_{(t)} = tl_{(t-1)} - D_{(t-1)}$
Slack time = TI-TE

2.3 Estimation Methods and Estimates

Describe the methods used to estimate the project effort, schedule, and budget level. Include tools and techniques used to obtain the estimates in the description. Provide estimates for the project dimensions (effort, schedule, and budget), and identify the source or basis of the estimates and the level of uncertainty and risk associated with the estimates.

Estimation Methods and Estimates	
Description	[<u>Best</u> / <u>Most Likely</u> / <u>Worst</u>]
Effort in <u>person-months</u> or <u>person-hours</u>	<u>person-hours</u>
Schedule in calendar <u>years</u>	7years
Budget in dollars	33000\$
Level of Uncertainty	20%

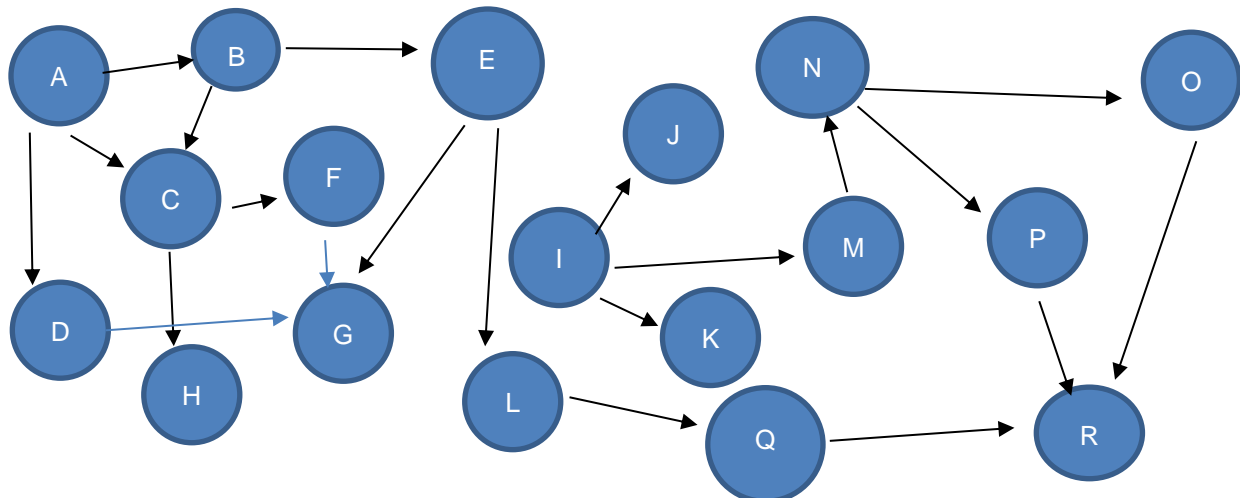
2.4 Schedule Allocation

Tasks	activity	o	R	P	Pretask	Duration	TE	TI	Slack
A	define project problem	2	4	12	-	5	5	5	0
B	produced a detailed project schedule.	10	12	26	A	14	19	19	0
C	confirm project feasibility	4	9	18	A, B	58	77	77	0
D	gather information to learn the problem domain	8	10	30	A	13	18	141	123
E	define system requirements	6	9	18	B	10	29	191	162
F	prioritize requirements	7	8	12	C	51	132	132	0
G	generate and evaluate alternatives	10	12	20	D, E, F	13	145	145	0
H	review recommendations with management	2	6	22	C	8	85	85	0
I	-design and integrate database	9	10	29	G	14	159	159	0

J	design and integrate the network	10	12	20	I	13	172	172	0
K	design the application architecture	5	9	19	I	10	169	169	0
L	design user interface	2	5	8	E	5	34	196	162
M	prototype for design details	20	22	30	I	23	182	182	0
N	design and integrate system control	6	8	16	M	9	191	191	0
O	construct software components	4	7	10	N	7	198	199	1
P	verify and test	5	8	11	N	8	199	199	0
Q	train users and document the system	1	3	5	L	3	37	199	162
R	install the system	2	5	8	O, P, Q	5	204	204	0

TE is 2055 days.

Critical path: A -> B -> C -> F -> G -> H -> I -> J -> K -> M -> N -> P -> R



2.5 Resource Allocation

*Identify the total number of resources (e.g., **personnel, equipment, facilities**) that will be needed for the project. For personnel, include each defined project organizational role in the resources and describe skill set requirements when appropriate. Identify the estimated timeframe (**start to finish**) for project commitment.*

Tasks	Resource
define project problem	Analyst, computer tool to draw WBS
produced detailed project schedule	Analyst, gant chart
confirm project feasibility	Project manager
gather information to learn the problem domain and define system requirements. prioritize requirements. generate and evaluate alternatives. review recommendations with management	Analyst, questioner methods Analyst, computer tool
design and integrate database. design and integrate the network. design the application architecture. design user interface prototype for design details design and integrate system control	Designer

construct software components verify and test. train users and document the system. install the system.	Programmer
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2.6 Budget Allocation

Identify the budget amount allocated by key budget categories (e.g., project milestone or standard cost categories such as personnel, and travel), including the period that may constrain the use of the f the budget.

Key Budget Category	Budget Amount	Period
A	1000\$	5
B	2000\$	14
C	7000\$	58
D	1300\$	13
E	1000\$	10
F	2600\$	51
G	1300\$	13
H	1000\$	8
I	1200\$	14
J	1300\$	13
K	1000\$	10
L	600\$	5
M	2200\$	23
N	1900\$	9
O	1800\$	7
P	1000\$	8
Q	300\$	3
R	500\$	5

Section 3. Risk Management

Based on project-specific methods, describe how risks will be analyzed to establish the project exposure for each risk and to determine which risks are the most important ones to address.

Risk Description	Probability	Impact	Strategy
<i>Cost Estimates Unrealistic</i>	Low	High	Included in the project plan, subject to amendment as new details regarding project scope are revealed
<i>Time Estimates Unrealistic</i>	low	High	
<i>Team Size</i>	low	Low	
<i>Project Scope Creep</i>	High	High	Defined in the project plan, reviewed by Project Manager and Steering Committee to prevent scope creep
<i>Team Members Unknowledgeable of Business</i>	High	High	
<i>Available documentation</i>	Low	Low	
<i>Narrow Knowledge Level of Users</i>	High	Low	
Data privacy and security	low	High	important to have clear policies in place for how data will be collected, used, and shared, and to obtain informed consent from all users
Bias in the data	High	High	Machine learning and deep learning algorithms are only as good as the data they are trained on. If the data contains biases or reflects inequalities in society, these biases can be perpetuated by the algorithm. It's important to carefully select the data used to train the algorithm and to evaluate the results to ensure they are fair and unbiased.

⇒

Section 4. Appendices

Attach the required deliverables and any other relevant information.

⇒

Analysis

School system

Interviewee's Name: Noha Emad	Date: 10/5/2023
Position: Manager	Time: 3:0:0:pm
Position Location: Office	Interviewer: Mohammed

Interview Questions

1. What is the Kind of platform

Answer

- (a) Website*
- (b) Desktop application*

2. Give Me a description of this system.

Answer

- ♦ *The student can learn at home by login into the website or desktop application and watching the recorded lectures and reacting with the instructor and doing exercises and quizzes.*

3. What is the student data?

Answer

- ♦ *Email, username, password, sex, name, age, GPA, mobile number*

4. What is the teacher data?

Answer

- ♦ *Email, username, password, gender, name, age, mobile number, department*

5. What is the kind of user?

➤ *Student, teacher*

Can you describe the most complex work you've done with these tools in the past?

Answer

- ♦ *Make the largest database in the school system.*

6. What are your expectations of the new system?

Answer

- ♦ *I expect this system will succeed and spreads all over the world.*

7. Can you describe how the e-learning system incorporates deep learning algorithms to generate personalized student quizzes and assessments?

Answer:

Yes, the e-learning system uses deep learning algorithms to analyze each student's learning progress and generate personalized quizzes and assessments that are tailored to their learning level and needs. The system uses a neural network architecture to identify patterns in the student's performance data and predict their level of mastery for each topic. Based on this analysis, the system generates quizzes and assessments that are appropriate for the student's learning level and provide opportunities for further learning and skill development

Report

The requirements that were obtained from this interview are:

1-system will be a website and desktop application

2- the system needs the attributes of students and instructors

3- this system will be used by teachers, students

4-use deep learning algorithms to make a school system

5-description of the graphic user interface to the project

Questionnaires

What the survey is about:

This survey shows how upper secondary education is provided. The questionnaire asks for information about:

- The educational programs offered at your school site.
- The school's resources.
- Teachers.
- The use of information technology and the obstacles in this area.

Is your school public or private?

- Public school ☐
- Private school ☐

About what percentage of your total funding for a typical school year comes from the following sources?

a. Government (includes departments, local, regional, state, and national)	%
b. Student fees or school charges paid by parents	%
c. Benefactors, donations, bequests, sponsorships, parent fundraising	%
d. Other	%
Total	100 %

How many students were enrolled in your school?

4. Which of the following best describes the area in which your school is located?

- . A (fewer than 3 000 people)
- A (3 000 to about 15 000 people)
- A (15 000 to about 100 000 people)
- A (100 000 to about 1 000 000 people)
- Close to the cultural/business/shopping center of a city with over 1 000 000 people
- Elsewhere in a city with over 1 000 000 people

In which study areas is it difficult to hire a fully qualified teacher?

- | | |
|----------------------|------------|
| a. Mother tongue | 1 Yes 2 No |
| b. Mathematics | 1 Yes 2 No |
| c. foreign languages | 1 Yes 2 No |
| d. social studies | 1 Yes 2 No |
| e. Sciences | 1 Yes 2 No |
| k. Other | 1Yes 2 No |

how often does your school group students using the following methods?

- a. Students are grouped more or less at random
- b. Students are grouped according to similar ability levels
- c. Students are grouped so that classes contain a mixture of ability levels
- d. Students are assigned according to the special expertise of teachers

Functional requirements

- ❖ Admin should be able to add, update and delete courses.
- ❖ Admin should be able to add, update and delete users.
- ❖ Admin should be able to manage the schedules of sources.
- ❖ Instructor should be able to upload and download the assignments.
- ❖ The students should be able to download the assignments.
- ❖ The students should be able to take the exam and then they can see the result.

Non-functional requirements

- Performance requirements
- System should be compactable with all modern browsers.
- System should respond to the operation message within 5sec
- Appearance
- The system must handle safe login and logout through the session.

Feasibility study

Benefit per year = 35000\$.

One time cost = 33000\$.

Recurring cost per year = 1000\$

Discount rate = 20%.

$$PV_n = Y \times \frac{1}{(1+i)^n}$$

0	$PV_b = 0$	$PV_c = 33000\$$
1	$PV_b = 29166\$$	$PV_c = 833\$$
2	$PV_b = 24305\$$	$PV_c = 695\$$
3	$PV_b = 20254\$$	$PV_c = 578\$$
4	$PV_b = 16878\$$	$PV_c = 482\$$
5	$PV_b = 14065\$$	$PV_c = 401\$$

0	$NPV_b = 0$	$NPV_c = 33000\$$
1	$NPV_b = 29166\$$	$NPV_c = 33833\$$
2	$NPV_b = 53471 \$$	$NPV_c = 34528\$$
3	$NPV_b = 73725\$$	$NPV_c = 35106\$$
4	$NPV_b = 90603\$$	$NPV_c = 35588\$$
5	$NPV_b = 104668\$$	$NPV_c = 35989\$$

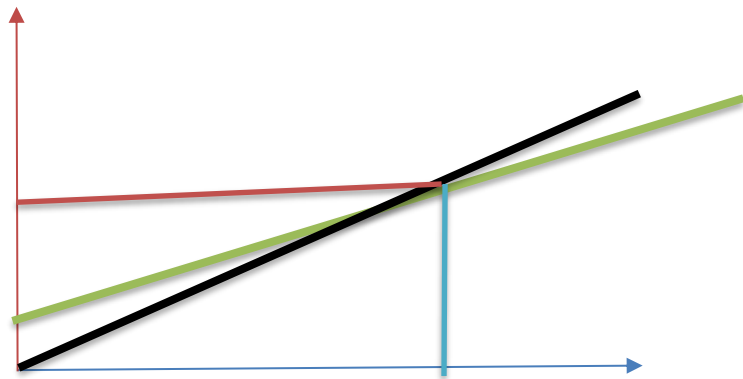
N	Yearly PV cash flow
---	---------------------

0	-33000
1	28333
2	23610
3	19676
4	16396
5	13664

N	Yearly overflow NPV cash flow
0	-33000
1	-4667
2	18943
3	38619
4	55015
5	68679

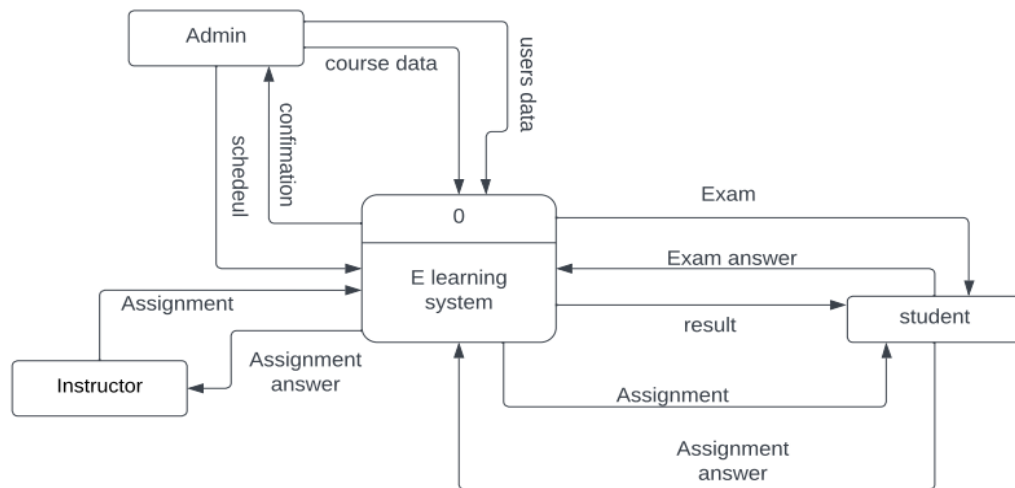
$$\text{Break-even point} = \frac{\text{Yearly PV cash flow} - \text{Yearly overflow NPV cash flow}}{\text{Yearly PV cash flow}} = \frac{(23610 - 18943)}{23610} = 0.19$$

Break-even point at 2.19

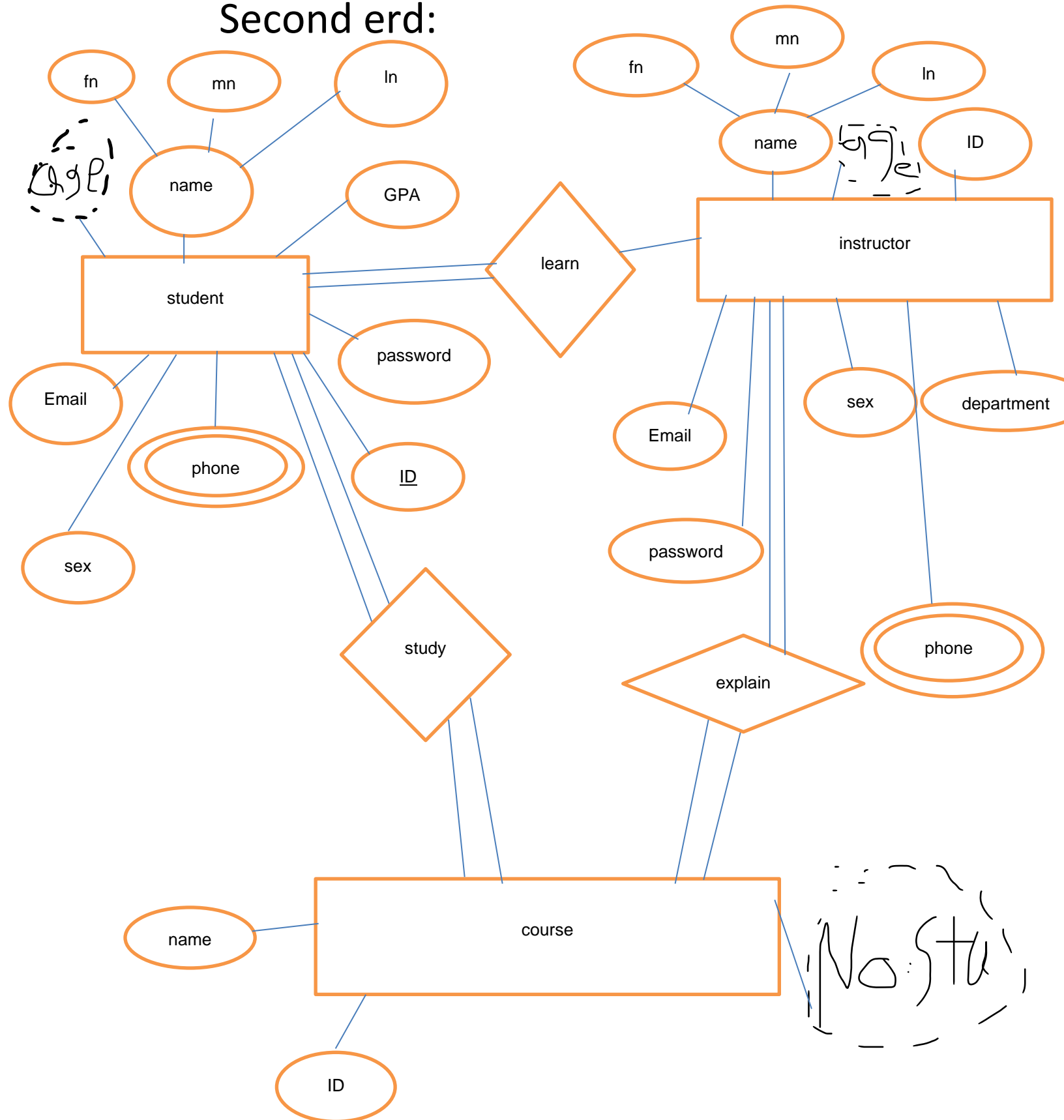


Design

First context diagram:



Second erd:



Third GUI:

screen in the system



Register screen for students:

HOME REGISTER SEARCH SOURCES TUTORIALS EVENTS FAQ ABOUT US CONTACT US SIGN IN العربية

SIGN UP TO EKB
And join the worlds largest digital library with unlimited resources free for all Egyptians
[JOIN NOW FOR FREE](#)

LOGIN
WELCOME TO THE EKB!
The worlds largest digital library granting unlimited access to endless resources and tools

Email Address

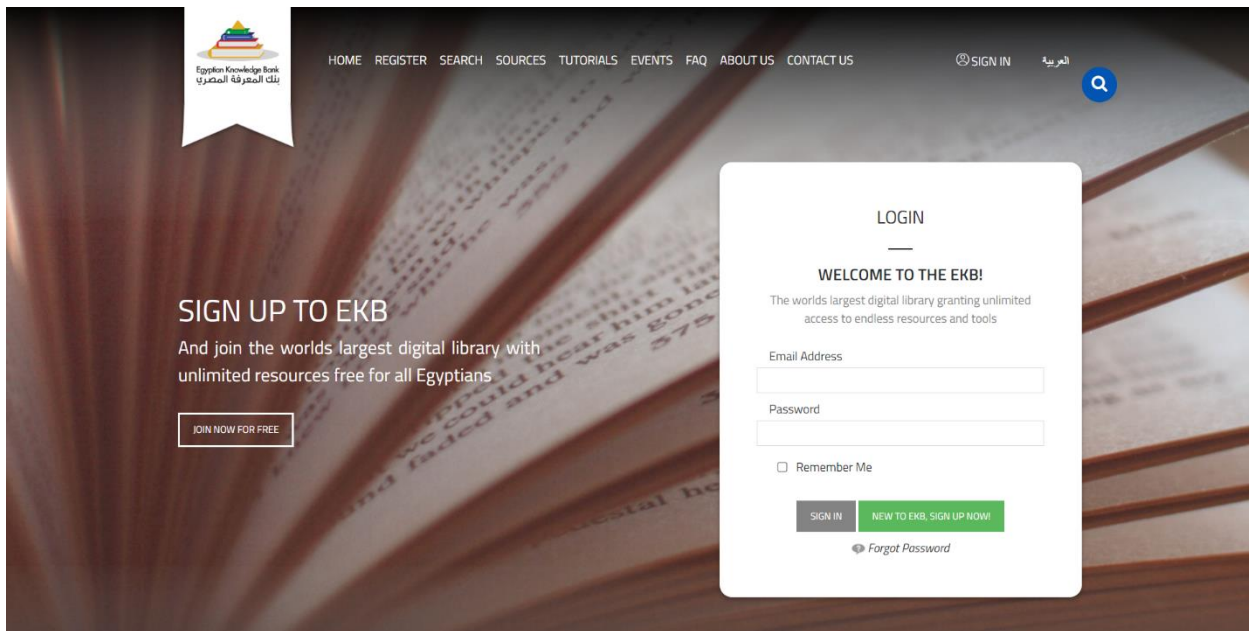
Password

☐ Remember Me

[SIGN IN](#) [NEW TO EKB, SIGN UP NOW!](#)

[Forgot Password](#)

Register screen for teacher:



Egyptian Knowledge Bank
بنك المعرفة المصري

HOME REGISTER SEARCH SOURCES TUTORIALS EVENTS FAQ ABOUT US CONTACT US

SIGN IN العربية

SIGN UP TO EKB
And join the worlds largest digital library with unlimited resources free for all Egyptians

JOIN NOW FOR FREE

LOGIN

WELCOME TO THE EKB!
The worlds largest digital library granting unlimited access to endless resources and tools

Email Address









Password

☐ Remember Me

SIGN IN NEW TO EKB, SIGN UP NOW!

[Forgot Password](#)

Teacher screen :

 <p>English</p> <p>لغة انجليزية - 3ث - أ / مهاب</p> <p>اضغط هنا لتصفح المادة</p>	 <p>Physics</p> <p>PHYSICS – S3 – Eslam Mamdouh</p> <p>اضغط هنا لتصفح المادة</p>	 <p>chemistry</p> <p>CHEMISTRY – S3 – Sara Mohamed</p> <p>اضغط هنا لتصفح المادة</p>	 <p>اللغة العربية</p> <p>لغة عربية – 3ثانوى – أ / زكريا</p> <p>اضغط هنا لتصفح المادة</p>
 <p>اللغة العربية</p> <p>اللغة العربية – الثالث الثانوى</p> <p>اضغط هنا لتصفح المادة</p>	 <p>الجيولوجيا</p> <p>الجيولوجيا – 3ث - أ / هادي يحيي</p> <p>اضغط هنا لتصفح المادة</p>	 <p>Geology</p> <p>GEOLOGY – S3 – Hady Yehia</p> <p>اضغط هنا لتصفح المادة</p>	 <p>Deutsch</p> <p>ألمانى – 3ث - أ / أحمد منعم</p> <p>اضغط هنا لتصفح المادة</p>

Teacher evaluation screen :

Teacher Evaluation

Teacher's name: _____ Your name: _____

1 = rarely 2 = once in a while 3 = sometimes

EXPLICIT CURRICULUM:

How well does the teacher teach the core subject?

1	Teacher is prepared for class.	1	2	3
2	Teacher knows his/her subject.	1	2	3
3	Teacher is organized and neat.	1	2	3
4	Teacher plans class time and assignments that help students to problem solve and think critically. Teacher provides activities that make subject matter meaningful.	1	2	3
5	Teacher is flexible in accommodating for individual student needs.	1	2	3
6	Teacher is clear in giving directions and on explaining what is expected on assignments and tests.	1	2	3
7	Teacher allows you to be active in the classroom learning environment.	1	2	3
8	Teacher manages the time well.	1	2	3
9	Teacher returns homework in a timely manner.	1	2	3
10	Teacher has clear classroom procedures so students don't waste time.	1	2	3
11	Teacher grades fairly.	1	2	3
12	I have learned a lot from this teacher about this subject.	1	2	3
13	Teacher gives me good feedback on homework and projects so that I can improve.	1	2	3
14	Teacher is creative in developing activities and lessons.	1	2	3
15	Teacher encourages students to speak up and be active in the class.	1	2	3

Course screen evaluation:

COURSE EVALUATION MANAGEMENT

Semester Spring 2021 ▼

Template Options
☐ Template Default ▼
☐ Supplemental -- None -- ▼

Accessibility Options
☐ Start Date 1/18/2021 📅
☐ Due Date 1/18/2021 📅
☐ Enable ? No ▼

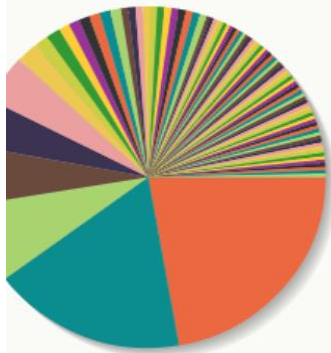
Release Options
☐ Release To Instructor No ▼
☐ Release To All Instructors No ▼
☐ Release To Students No ▼

☐ Select All Filter View Configuration View ▼

Course	Course ID	Instructor	Template	Supplemental	Start Date	Due Date	Enabled? ^	Instr	All Instrs	Stdts
<input type="checkbox"/> Adjudicatory Criminal Pro. (362-10)	362	Lee, Pat	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Administrative Law (400-11)	400	Glicksman, Shane	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Administrative Law (400-12)	400	Pierce, Jr., Shane	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Advanced Evidence (679-20)	679	Gilligan, Chris	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Agency and Partnership (294-20)	294	Wyrsh, Shane	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Copyright Law (472-11)	472	Brauneis, Shane	Default	NA	05/18/2021	05/26/2021	Y	N	N	N
<input type="checkbox"/> Copyright Law (472-12)	472	Brauneis, Shane	Default	NA	05/18/2021	05/26/2021	Y	N	N	N

Analysis screen:

m doing on Tue at 8pm



This week's concerns



How I'm feeling this week



Classroom screen:




WEEKLY SCHEDULE

1222 Hopewell Ave. (Route 52)
in Fishkill
www.blazindancefitness.com
(845) 629-5974

SUNDAYS	MONDAYS	TUESDAYS	WEDNESDAYS	THURSDAYS	FRIDAY S	SATURDAYS
ZUMBA/ZUMBA TONING Combo Class (Kim) 10:15–11:30am 1st Sunday of every month only!!	ZUMBA GOLD - TONING (weights optional) (Elvira) 9:30–10:15am			ZUMBA GOLD - TONING (weights optional) (Elvira) 9:30–10:15am		PiYo (Kerri) 8:45 – 9:30am
PiYo (Lisa) 9:15 - 10am Every Sunday EXCEPT the 1st of the month						YOGA (Taura) 9:45am-10:45am
Turbo Kick (Lisa) 10:15 - 11am Every Sunday EXCEPT the 1st of the month!	ZUMBA GOLD-TONING (weights optional) (Elvira) 5:30 - 6:15pm	ZUMBA TONING (with weights) (Kim) 6:30 – 7:15pm	ZUMBA GOLD-TONING (weights optional) (Elvira) 5:30–6:15pm	ZUMBA TONING (with weights) (Kim) 6:30 – 7:15pm		
	COUNTRY HEAT (Janice) 6:30 - 7:15pm	ZUMBA (Kim) 7:30- 8:30pm	YOGA (Taura) 6:25-7:20pm	ZUMBA (Kim) 7:30- 8:30pm		

Exam screen:



QUESTION PALETTE

Click on below palette to jump the relevant questions

Active

Not Visited

Answered

Not Answered

Clear Filter

1

2

Finish

EDIT_TEST-12-02-19

TEST INSTRUCTION

<

>

Question: 1 of 2

Subject : General Knowledge

Question:

who is narendra modi

Answer(s):

A

PM of India

B

CM of Gujarat

C

HM of India

D

President of India

Passet

<

>

UTPA

Page 32

Fourth mapping result: student

<u>id</u>	fname	mname	lname	email	password	gpa	sex
-----------	-------	-------	-------	-------	----------	-----	-----

instructor

<u>Id</u>	fname	mname	lname	email	password	sex	department	<u>subject-id</u>
-----------	-------	-------	-------	-------	----------	-----	------------	-------------------

learn

<u>Student-ID</u>	<u>instructor-ID</u>
-------------------	----------------------

study

<u>Student-ID</u>	<u>course-ID</u>
-------------------	------------------

stphone

<u>Student-ID</u>	<u>Phone</u>
-------------------	--------------

course

<u>course-id</u>	Name
------------------	------

instructorphone

<u>Instructor-ID</u>	<u>phone</u>
----------------------	--------------

fifth DFD:

