



Department of Computer Engineering
CSE4061 System Analysis and HCI Design
Project Report

IŞIĞI GÖR KARANLIĞI AYDINLAT

Due Date: 04.05.2015

Name & Surname: Mestan Ali TOSUNER – Mert KAPLAN

ID: 1201020047 – 1201020044

Instructor: Assis.Prof.Dr. Akhan AKBULUT

Teaching Asst. : Engineer Öznur ŞENGEL

TABLE OF CONTENTS

1. PROJECT DESCRIPTION

Overview

This project helps the children who stay the society for the protection of children with the help of students that are studying in universities.4

1. Scope of the Project.....	4
2. Interview Question.....	5
3. FEASIBILITY STUDY	6
3.1. Technical Feasibility	6
3.2. Economical Feasibility	6
3.3. Organizational Feasibility.....	6
4. REQUIREMENT ANALYSIS.....	7
5. PROJECT MANAGEMENT	8
5.1. Project Organizational Schema:.....	8
5.2. Work Breakdown Structure (WBS).....	9
5.3. Resources	10
5.4. Gant Chart.....	11
5.5. Pert Chart	12
6. USE CASE DIAGRAM.....	13
7. DATA FLOW DIAGRAM.....	14
7.1. Context Diagram.....	14
7.2. Level 0, Level 1, etc.	15
7.2.1.Level 0	15
7.2.2.Level 1	16
7.3. Data Dictionary.....	17
7.3.1.Data Flow Specification Form	17
7.3.2.External Entity Specification Form	17
7.3.3.Data Store Specification Form	18
7.3.4.Process Specification Form (Structured English or Decision Table or Decision Tree)	19
8. CLASS DIAGRAM.....	22
9. ACTIVITY DIAGRAM.....	23
10.SEQUENCE DIAGRAM	24
11.HUMAN COMPUTER INTERACTION.....	28
11.1. Non-Operational Prototype (User Interfaces).....	28

LIST OF TABLES

Table 1: Data Flow 1 Specification Form_____	17
Table 2: Data Flow 2 Specification Form_____	17
Table 3: External Entity 1 Specification Form _____	17
Table 4: External Entity 2 Specification Form_____	18
Table 5: Data Store 1 Specification Form_____	18
Table 6: Data Store 2 Specification Form_____	19
Table 7: Process 1 Specification Form_____	19
Table 8: Process 2 Specification Form_____	20

1. PROJECT DESCRIPTION

Overview

This project helps the children who stay the society for the protection of children with the help of students that are studying in universities.

Intended Results

- helping the children in their education life
- supplying the children about their social life
- at the same time supplying the students about their social life
- doing an event for the children for their possible time

1. Scope of the Project

The system includes 4 main parts. The first one is Voluntary Students. The second one is about Chosen Voluntary Students, third is Children and the last one is Jury.

- Voluntary Students register the website and are examined related with the course that they want to give a lesson for children. If they pass the examination, they are now, called "Chosen Voluntary Student". If they are not, they should examine without without registration again.

- The Chosen Voluntary Students are ready for the giving a lesson for the children. According to course they want to teach, time, course and location are shown to them on the website.

- Time, location, the event times and also chosen voluntary students are shown to children on the website. Children can register the website and see all of them.

- Jury set the time, location, event, the exam question and result. S/he knows who is the chosen voluntary students or not. S/he is also has the opportunity to know all about the system.

2. Interview Question

Do you use any system right now? (Open-Ended Interview Question)

What are the elements for this system? (Open-Ended Interview Question)

How many person do you need for this system? (Closed Interview Question)

Do you have any hardware for this system? (Closed Interview Question)

Which one is that you need to use on your system? (Closed Interview Question)

- A-) Web Site System
- B-) Smart Phone Application System
- C-) Desktop System
- D-) Non of them

Do you want any person from our company for this system? (Bipolar Interview Question)

Why do you need this system? (Probe)

What do you need another thing on your system? (Open-Ended Interview Question)

Do they need any education for this system? (Bipolar Interview Question)

Is there any person that secures these information? If you don't have, do you need any staff?
(Closed Interview Question)

If you want this system, do you also think of eliminating the activities according to the age of those children? (Closed Interview Question)

3. FEASIBILITY STUDY

3.1. Technical Feasibility

- There is no current such a system.
- We should develop this system.
- We need to open a website for this.
- System is technically acceptable.

3.2. Economical Feasibility

- Estimation completed time: 4 months.
- Opening such a system: 60.000 TL
- Cost of system study : 12.000 TL
- Cost of designer : 6.000 TL
- Cost of developer: 8.000 TL
- Cost of tester: 2.500 TL
- Cost of Project Manager: 5.000 TL
- System is economically acceptable.

3.3. Organizational Feasibility

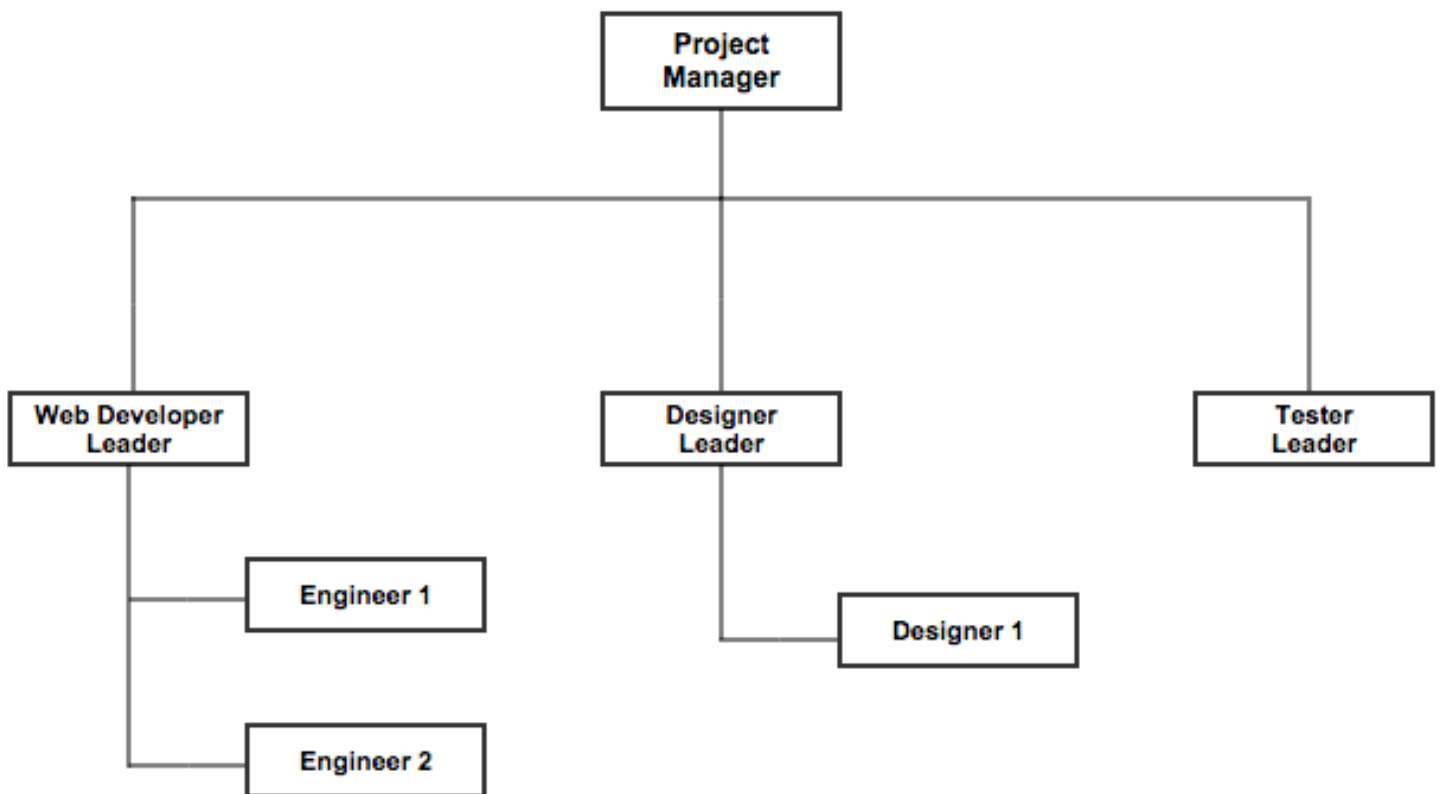
- Our team is consist of 6 people.
- Project Manager, 3xWeb Developer, 2xDesigner and Test Developer.
- System is operationally acceptable.

4. REQUIREMENT ANALYSIS

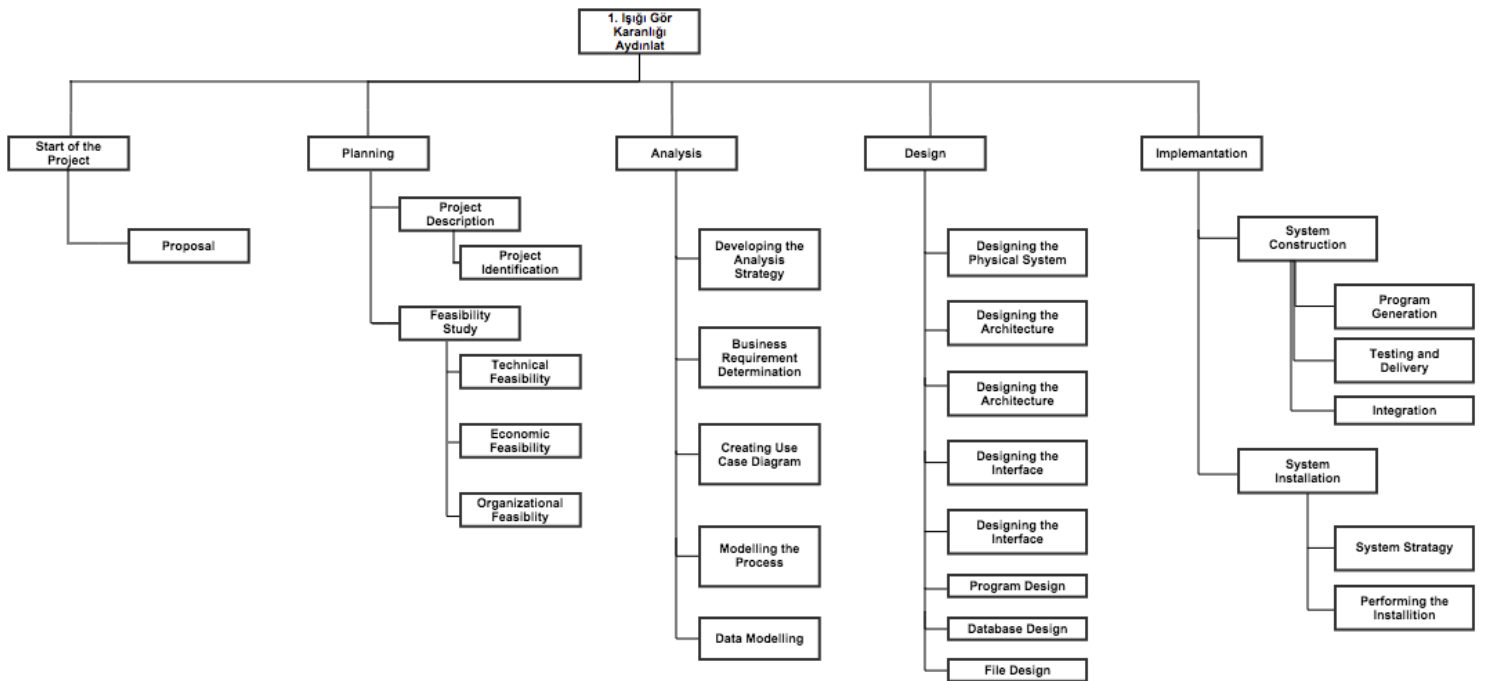
- Project Manager
- 3xWeb Developer
- 2xDesigner
- Test Developer

5. PROJECT MANAGEMENT

5.1. Project Organizational Schema:



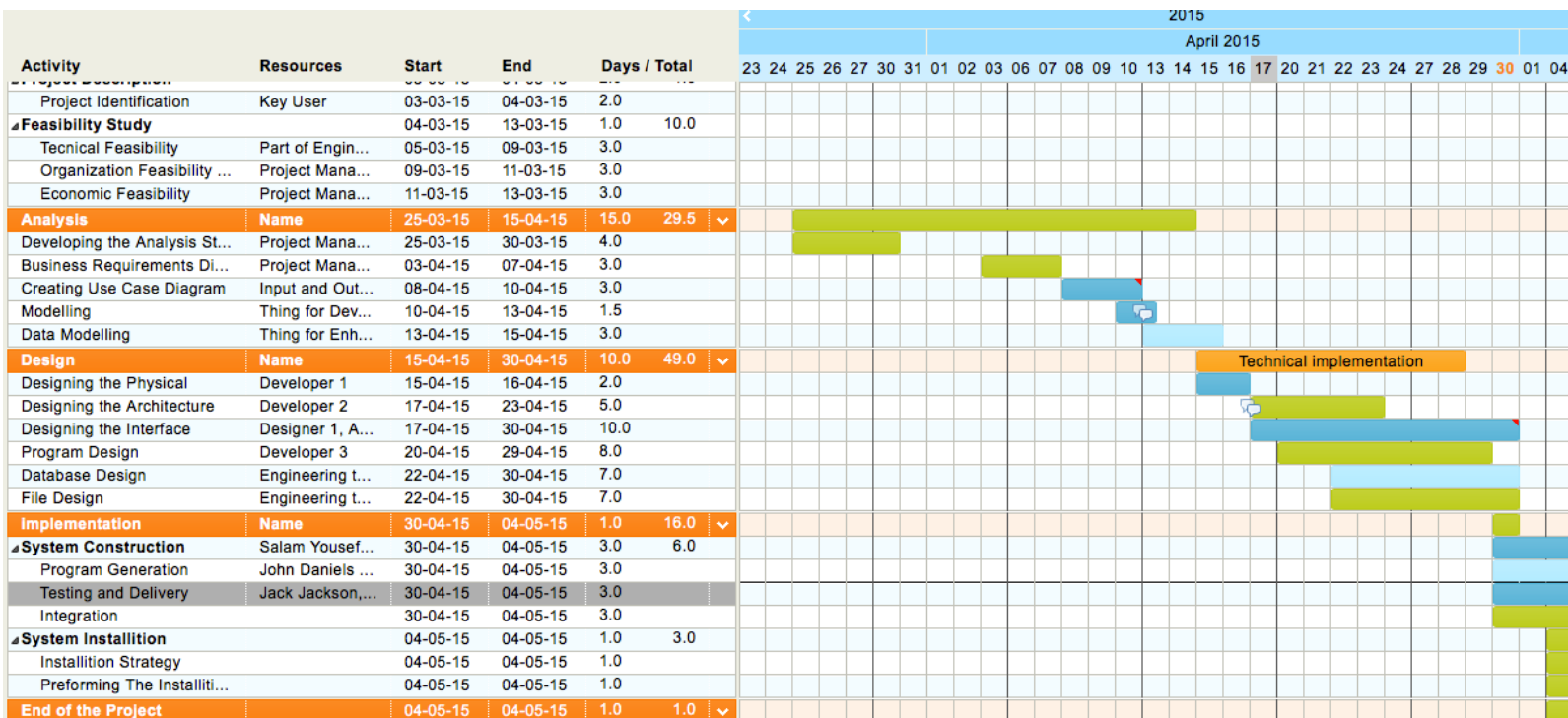
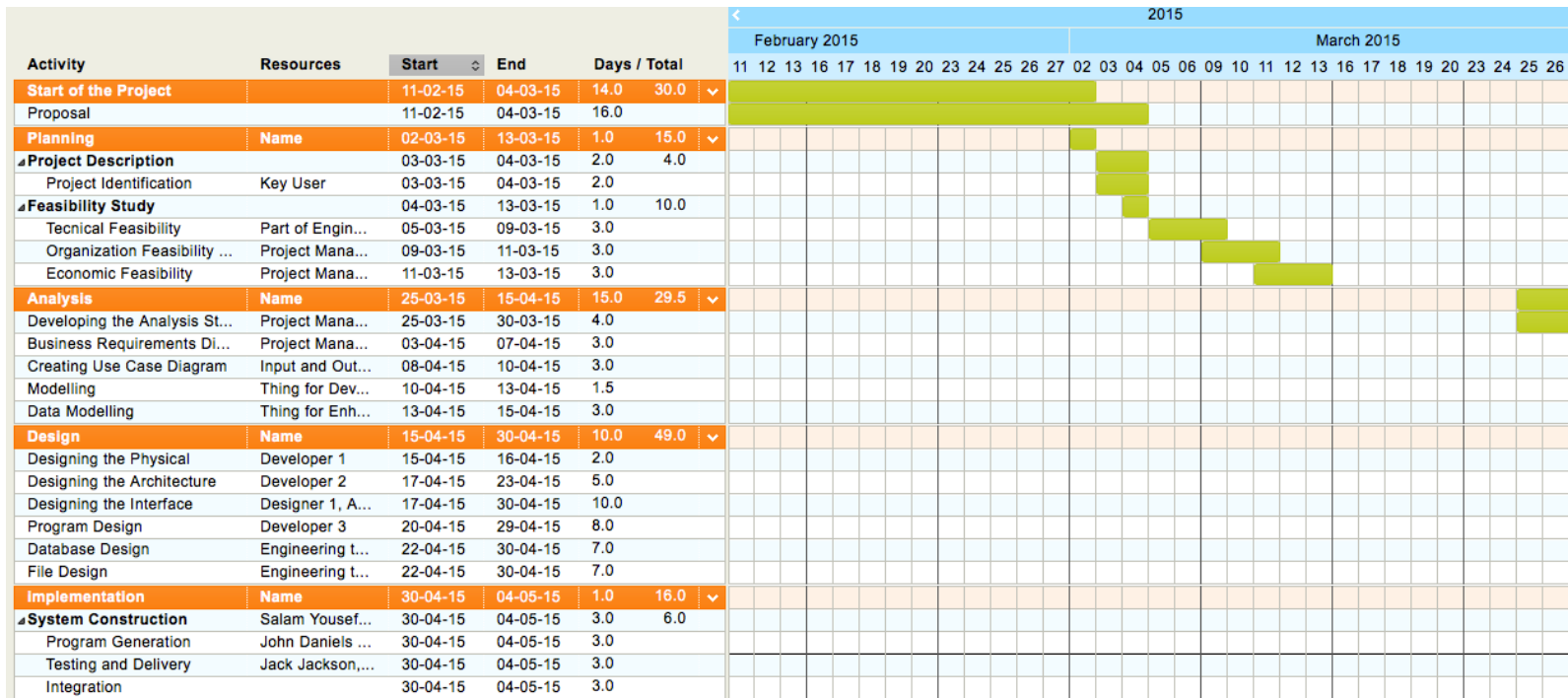
5.2. Work Breakdown Structure (WBS)



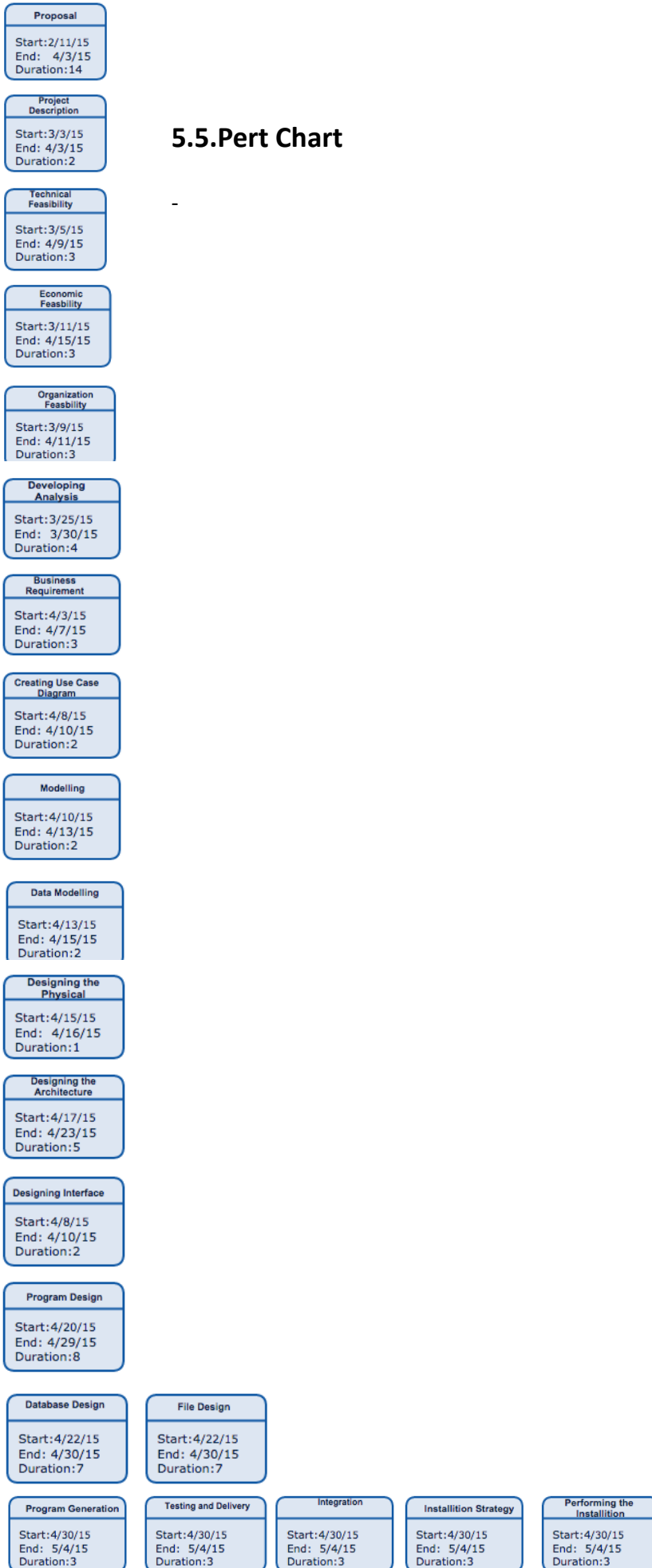
5.3. Resources

Level	Project Stage	Researchers
1		
Start of the Project		
1.1	Proposal	Project Manager (M.Ali Tosuner - Mert Kaplan)
2	Planning	
2.1	Project Description	Key User
2.2	Project Description	Key User, Project Manager
2.1.2	Feasibility Study	Project Manager
2.1.2.1	Technical Feasibility	Engineer 1, Engineer 2
2.1.2.2	Economic Feasibility	Project Manager
2.1.2.3	Organizational Feasibility	Engineer 1, Project
3	Analysis	
3.1	Developing the Analysis Strategy	Project Manager, Engineer 2
3.2	Business Requirement Determination	Project Manager
3.3	Creating U.Case Diagrams	Engineer 1, Engineer 2
3.4	Modeling the Process	Engineer 1
3.5	Data Modelling	
4	Design	
4.1	Designing the Physical	Engineer 1, Engineer 2
4.2	Designing the Architecture	Engineer 1
4.3	Designing the Interface	Designer 1
4.4	Program Design4	Engineer 2
4.5	Database Design	Engineer 1, Engineer 2
4.6	File Design	Engineer 1
5	Implementation	
5.1	System Constructor	Engineer 1
5.1.1	Program Generation	Engineer 1
5.1.2	Testing and Delivery	Engineer 2
5.2	System Installation	Engineer 1, Engineer 2
5.2.1	Installation Strategy	Project Manager
5.2.2	Performing the Installation	Engineer 1

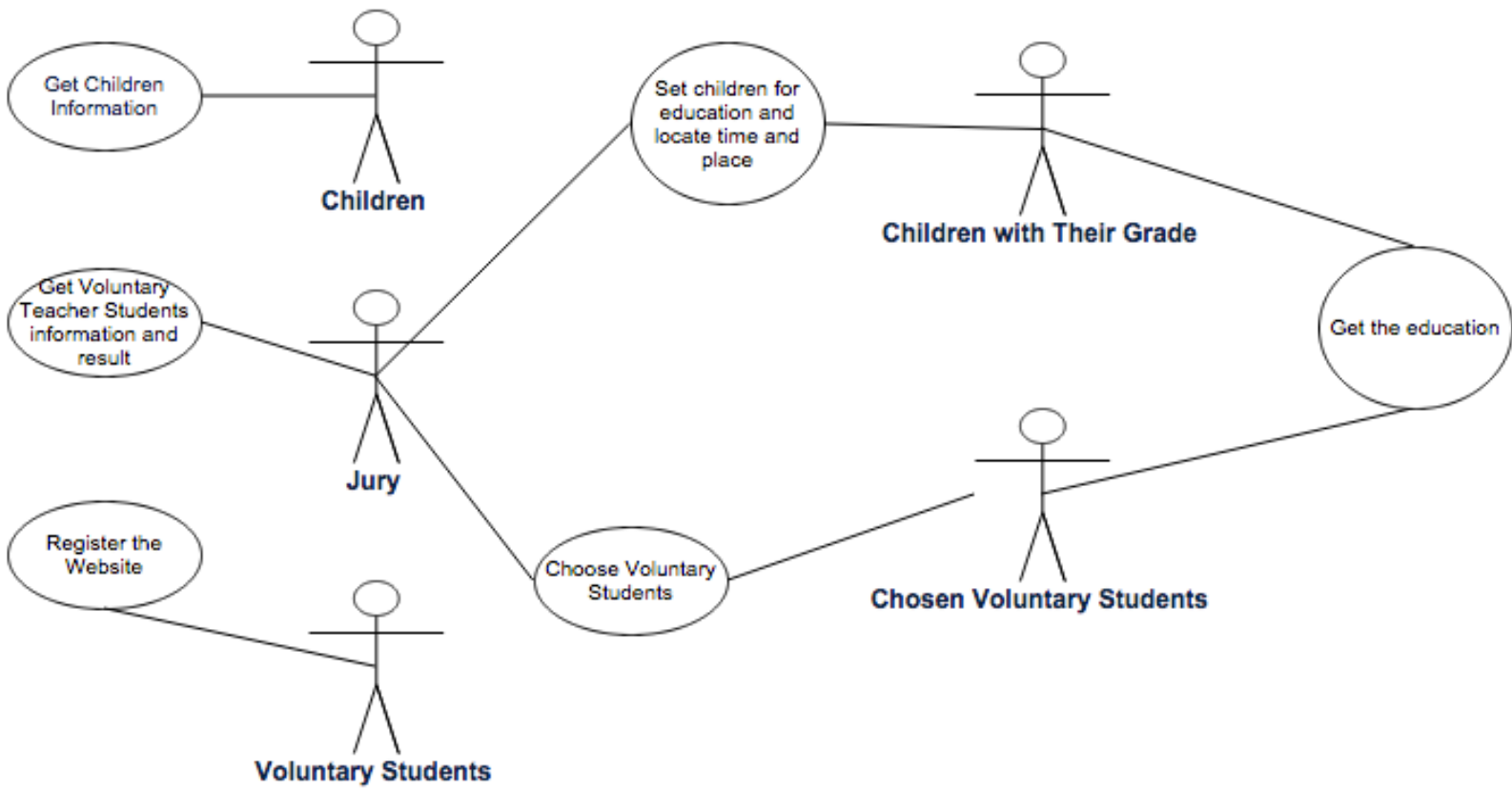
5.4. Gant Chart



5.5.Pert Chart

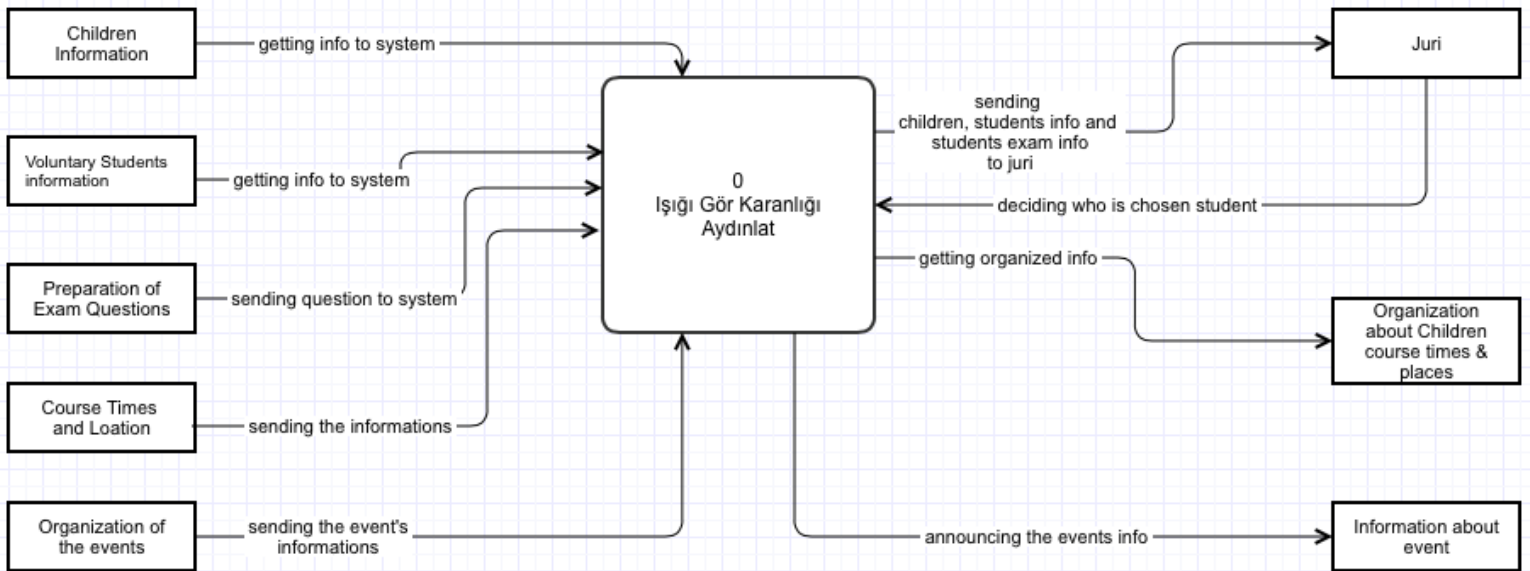


6. USE CASE DIAGRAM



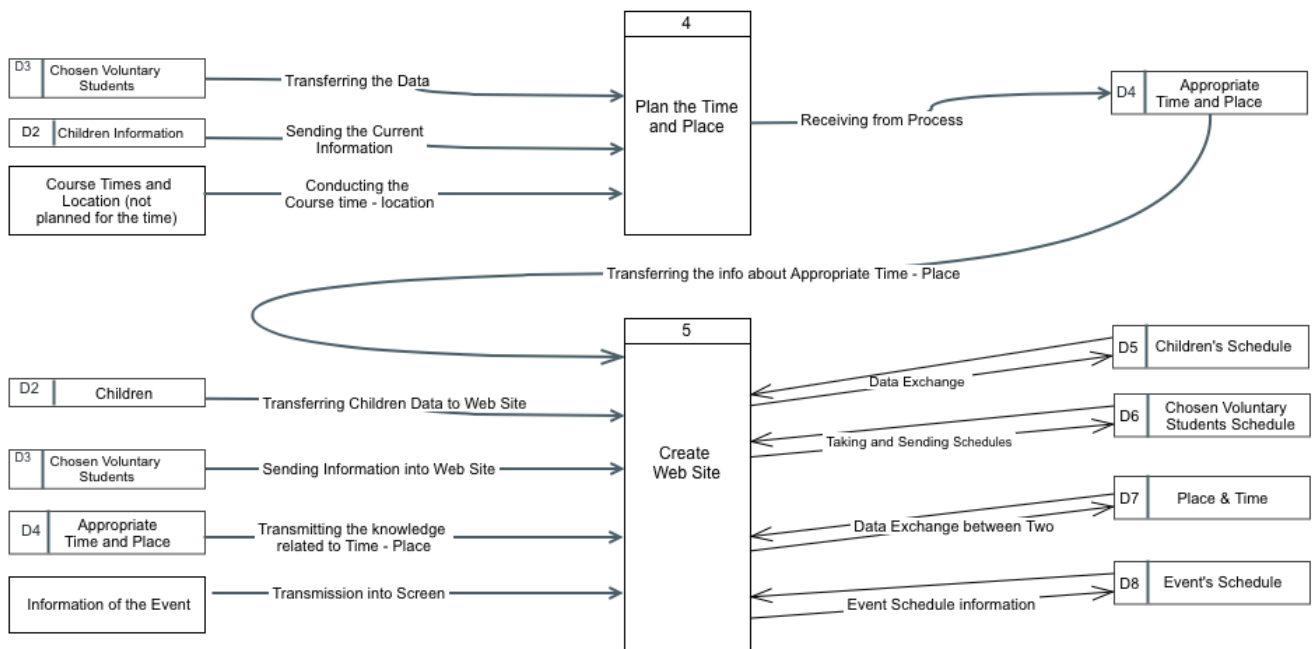
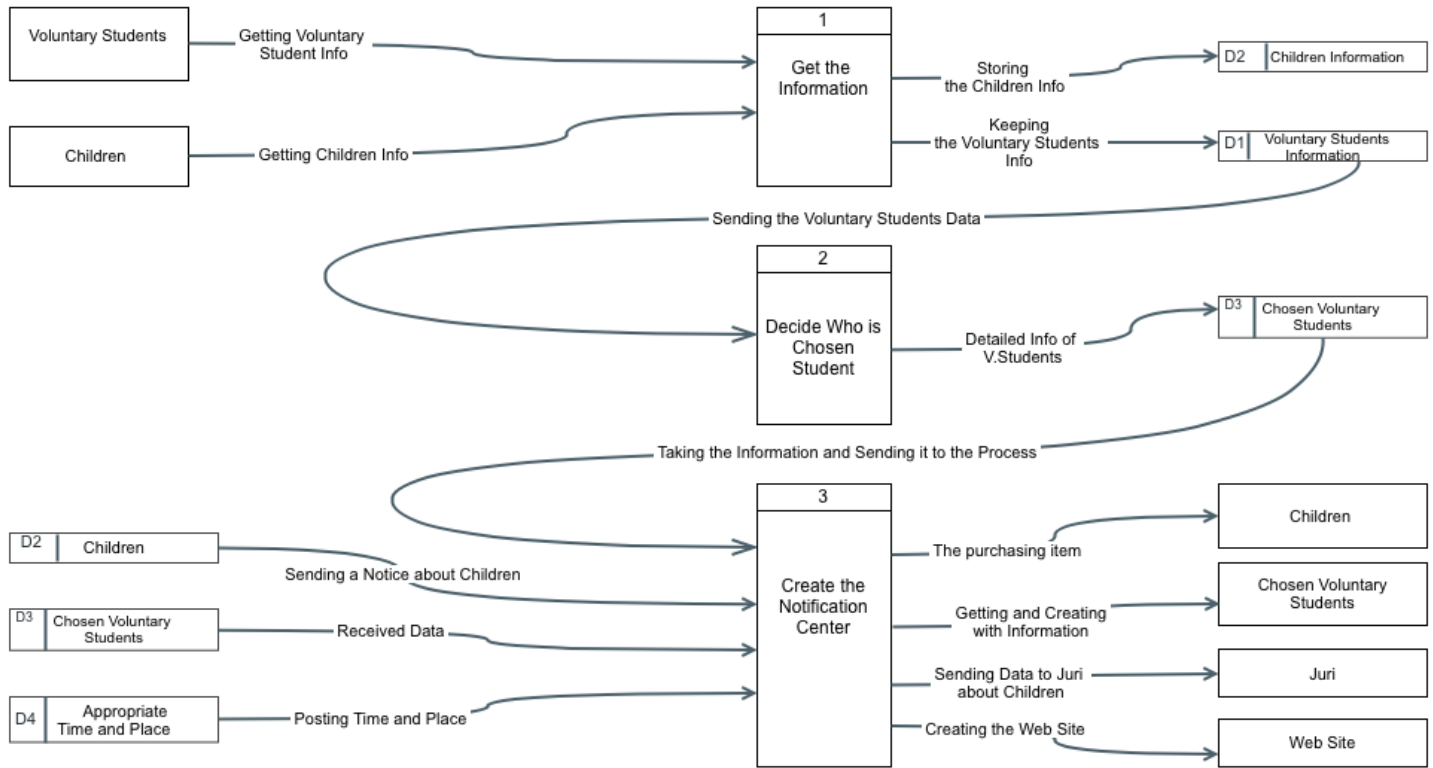
7. DATA FLOW DIAGRAM

7.1. Context Diagram

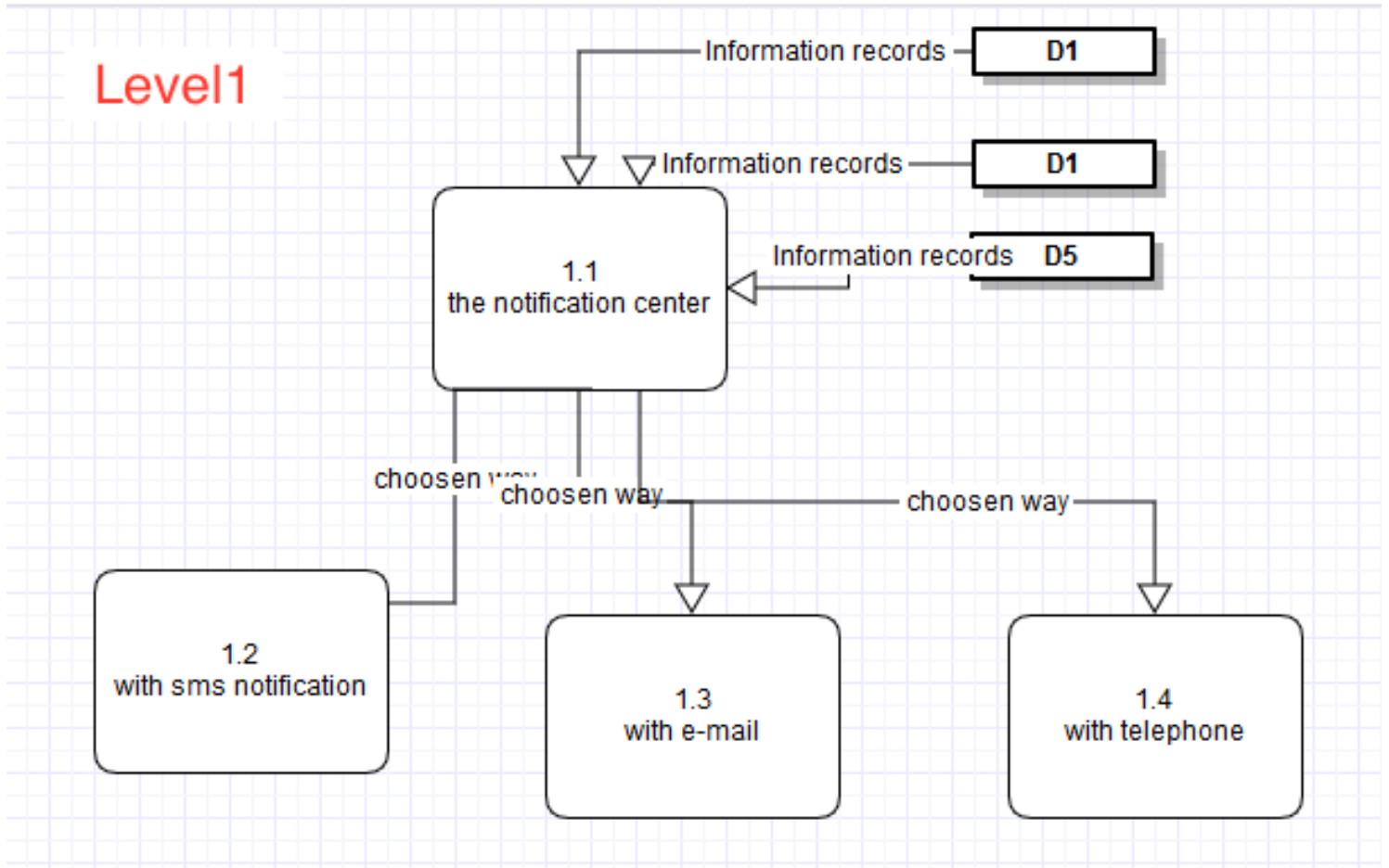


7.2. Level 0, Level 1, etc.

7.2.1. Level 0



7.2.2.Level 1



7.3. Data Dictionary

7.3.1.Data Flow Specification Form

Table 1: Data Flow 1 Specification Form

Name	Getting Voluntary Students Info
Description	It sends the student information to the system of get information process
Location	Process Name (ProcessNumber) Source: Voluntary Student Destination: Get the information (1)

Table 2: Data Flow 2 Specification Form

Name	Getting Children Info
Description	It sends the childrens information to the system of get information process
Location	Process Name (ProcessNumber) Source: Children Destination: Get the information

7.3.2.External Entity Specification Form

Table 3: External Entity 1 Specification Form

Name	Voluntary Students
Description	This is a part of the system that students register that system
Location	Input Flows: - Output Flows: Getting Voluntary Students Info

Table 4: External Entity 1 Specification Form

Name	Children
Description	This is another part of the system that children take the course and their information are registered
Location	Input Flows: The Purchasing Item Output Flows: Getting Children Info

7.3.3.Data Store Specification Form**Table 5: Data Store 1 Specification Form**

Number	D1
Name	Voluntary Students
Description	It stores the information about Voluntary Students
Location	Level Number Input Flows: Keeping the Voluntary Info Output Flows: Sending the Voluntary students data
Composition	Attribute: Student Name: Char Student Surname : Char

Table 6: Data Store 2 Specification Form

Number	D2
Name	Children Information
Description	It stores the information about children
Location	Level Number Input Flows: Storing the Children Info Output Flows: Sending a Notice about Children
Composition	Attribute: Data type Children Name: Char Children Surname : Char

7.3.4.Process Specification Form (Structured English or Decision Table or Decision Tree)

Table 7: Process 1 Specification Form

Number : 1 Name : Get the information Description : It gets the information from the External Entity to Data Store	
Input Data Flow Getting Voluntary Student Info & Getting Children Info	
Output Data Flow Storing the Children Info & Keeping the Voluntary Students Info	
Type of Process Online Batch Manual	Subprogram/Function Name -

<p>Process Logic:</p> <p>IF the information comes to system DO check information student or not. THEN IF the information about student, DO check their user account is it already registered or not. IF the student already has registered DO check students information correct or not. ELSE the system require new create account and store the database. IF the information about the children, DO check their user account is user account is it already registered or not. IF the children already has registered DO check students information correct or not. ELSE the system require new create account and store the database. ENDIF</p>		
<p>Refer to: Name:</p> <p style="text-align: center;"> Structured English Decision Table Decision Tree </p>		
<p>Unresolved Issues: —</p>		

Table 8: Process 2 Specification Form

<p>Number : 2 Name : Decide Who is Teacher Description : It chooses the teacher who will give the course to the children</p>	
<p>Input Data Flow Sending the Voluntary Students data</p>	
<p>Output Data Flow Detailed Info of Voluntary Students</p>	
<p>Type of Process</p> <p style="text-align: center;"> Online Batch Manual </p>	<p>Subprogram/Function Name</p>

Process Logic:

```
IF
  The student successful
  DO
    Check the student already gave education
  THEN
    check process and show their before details
  DO
    Send informations to data
  AND
    Give teacher degree to student
  THEN
    Give details to student-teacher.
  AND
    Store the data
  ELSE
    Notice the student cannot get student-teacher degree
ENDIF
```

Refer to: Name:

Structured English

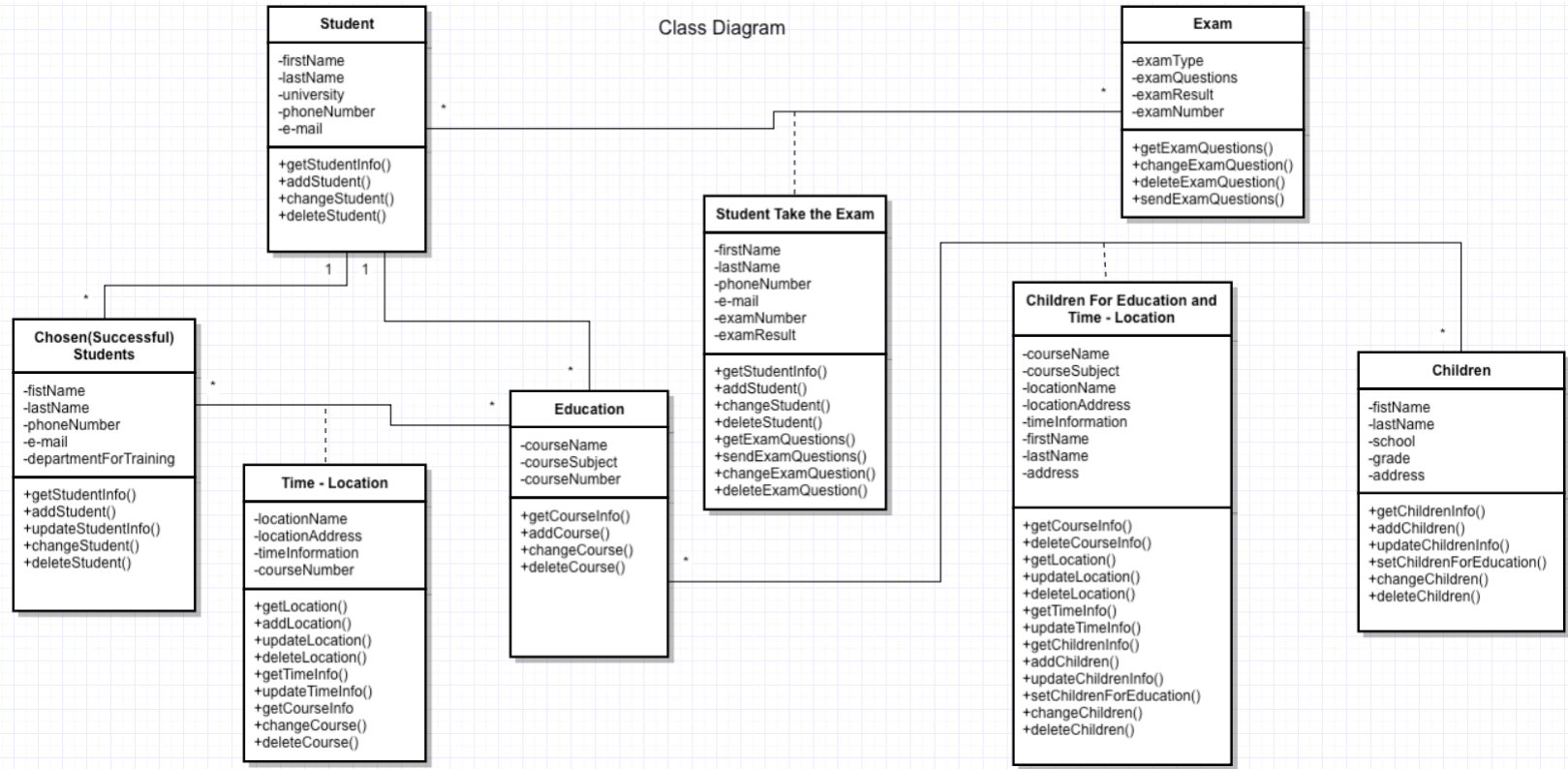
Decision Table

Decision Tree

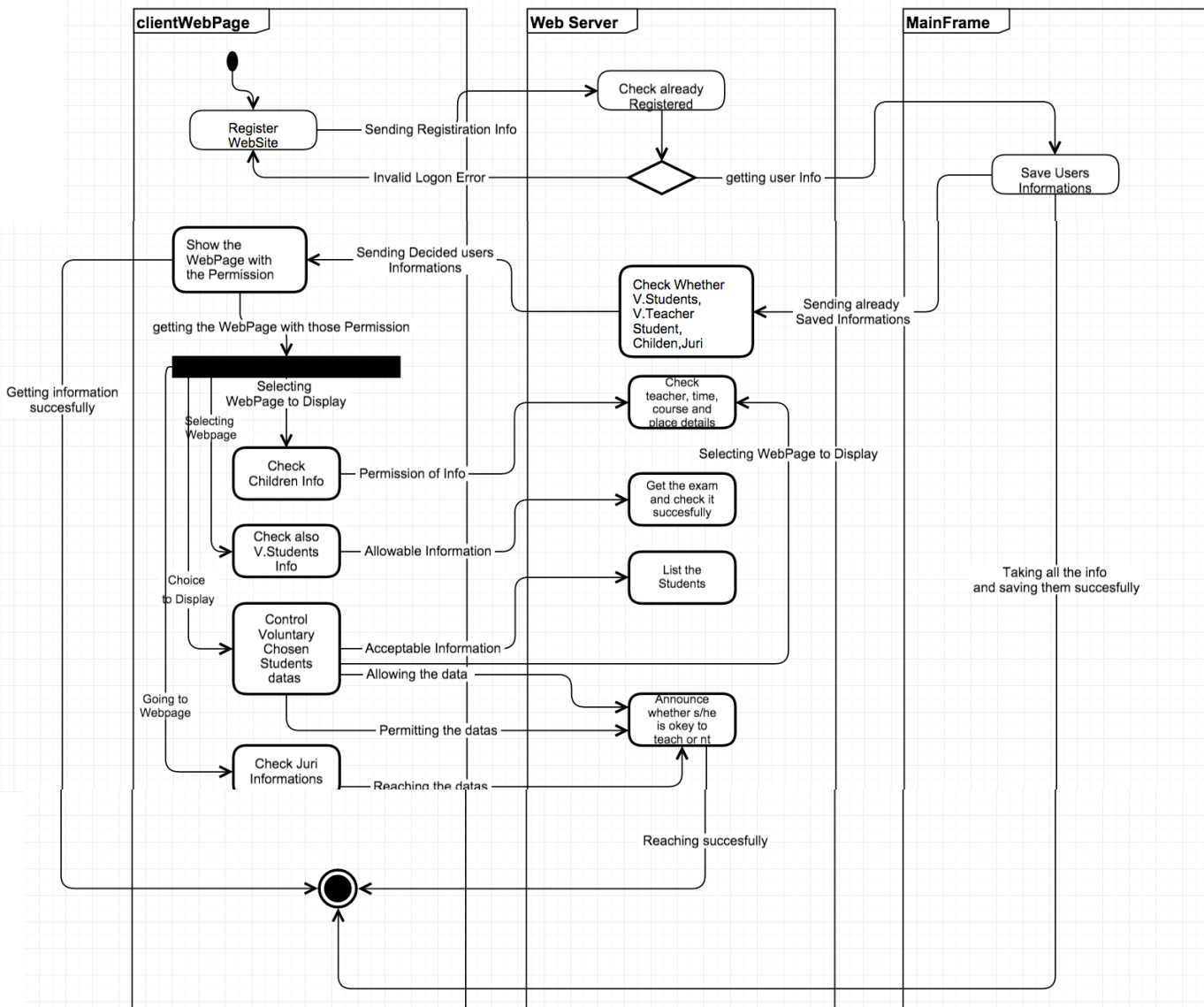
Unresolved Issues: —

8. CLASS DIAGRAM

Class Diagram

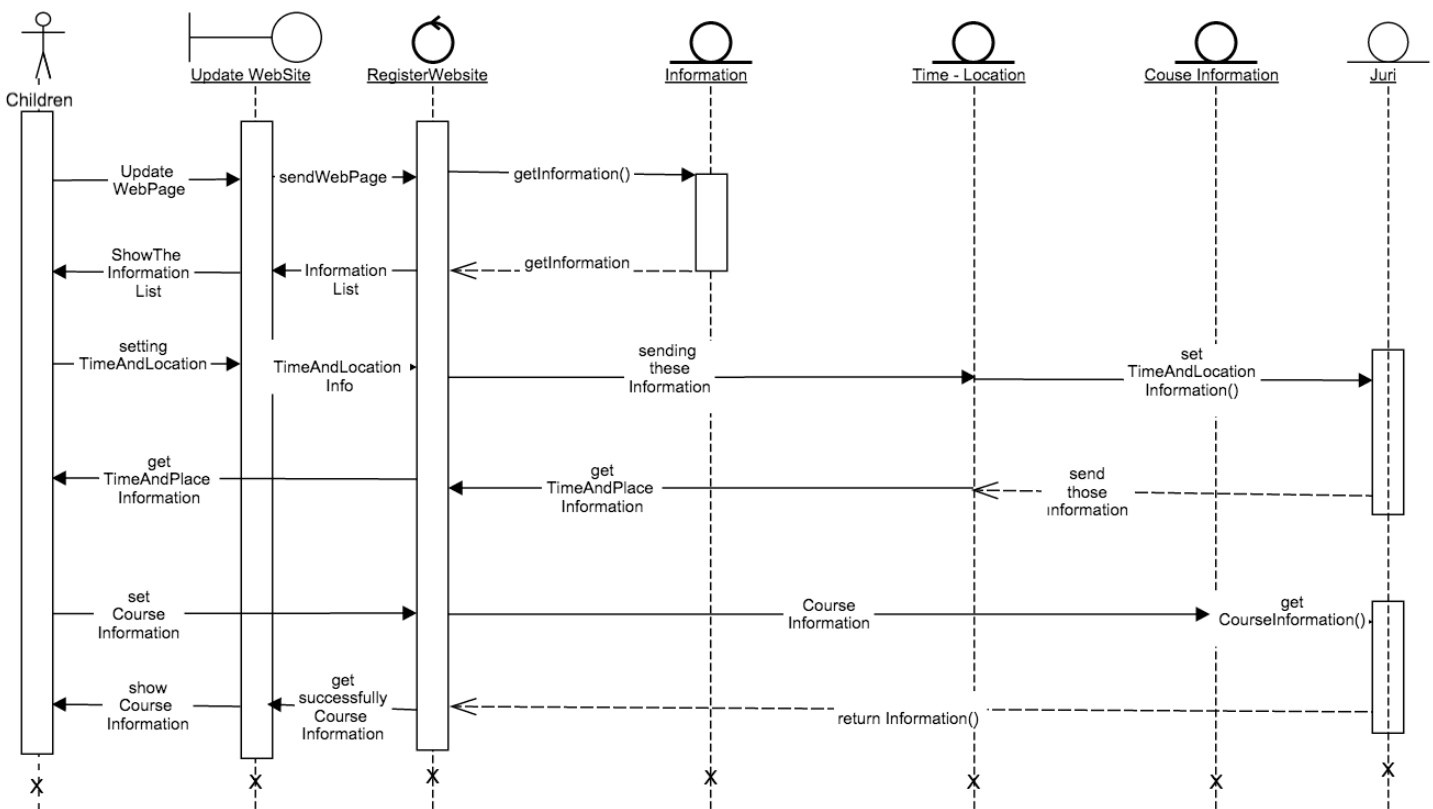


9. ACTIVITY DIAGRAM

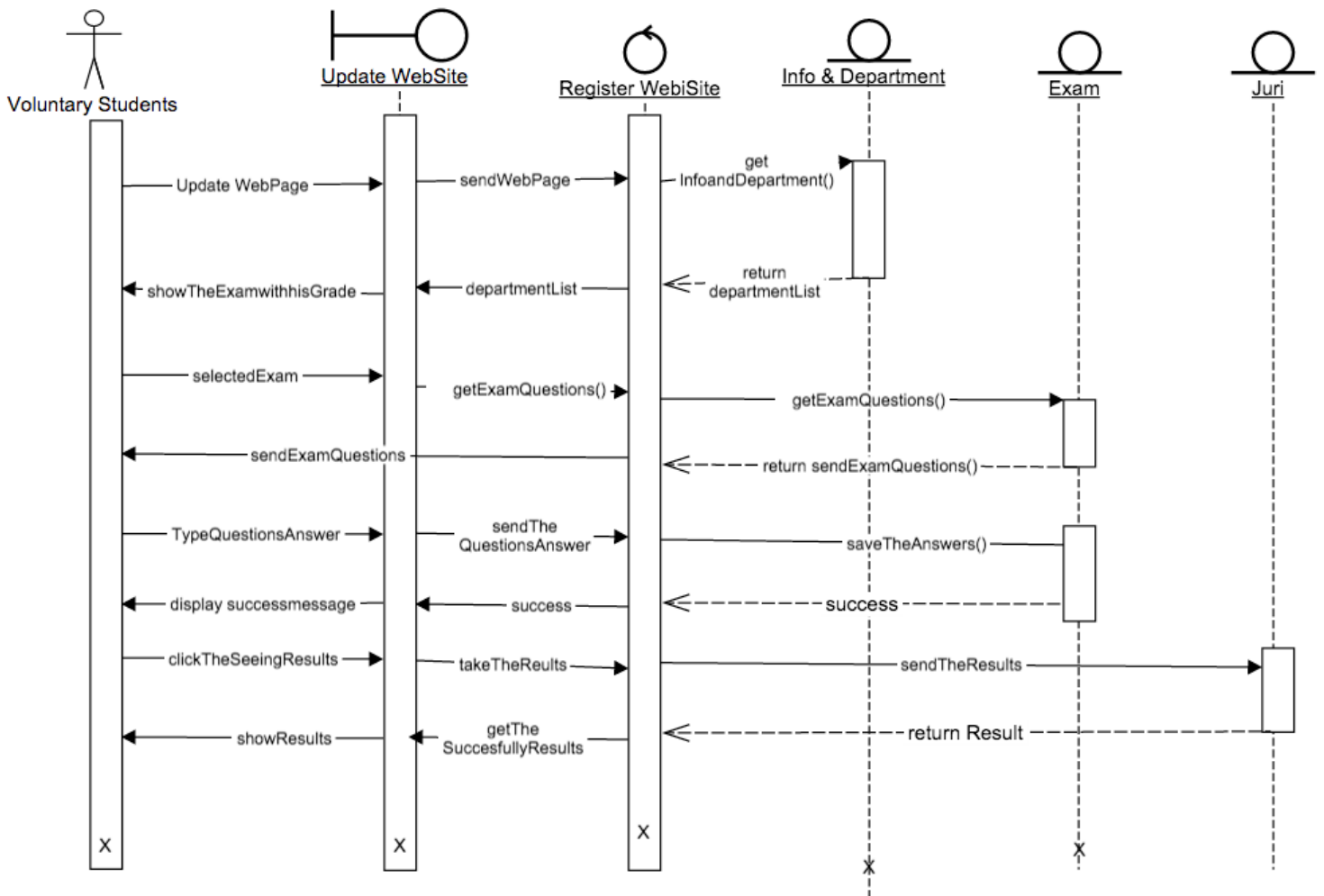


10. SEQUENCE DIAGRAM

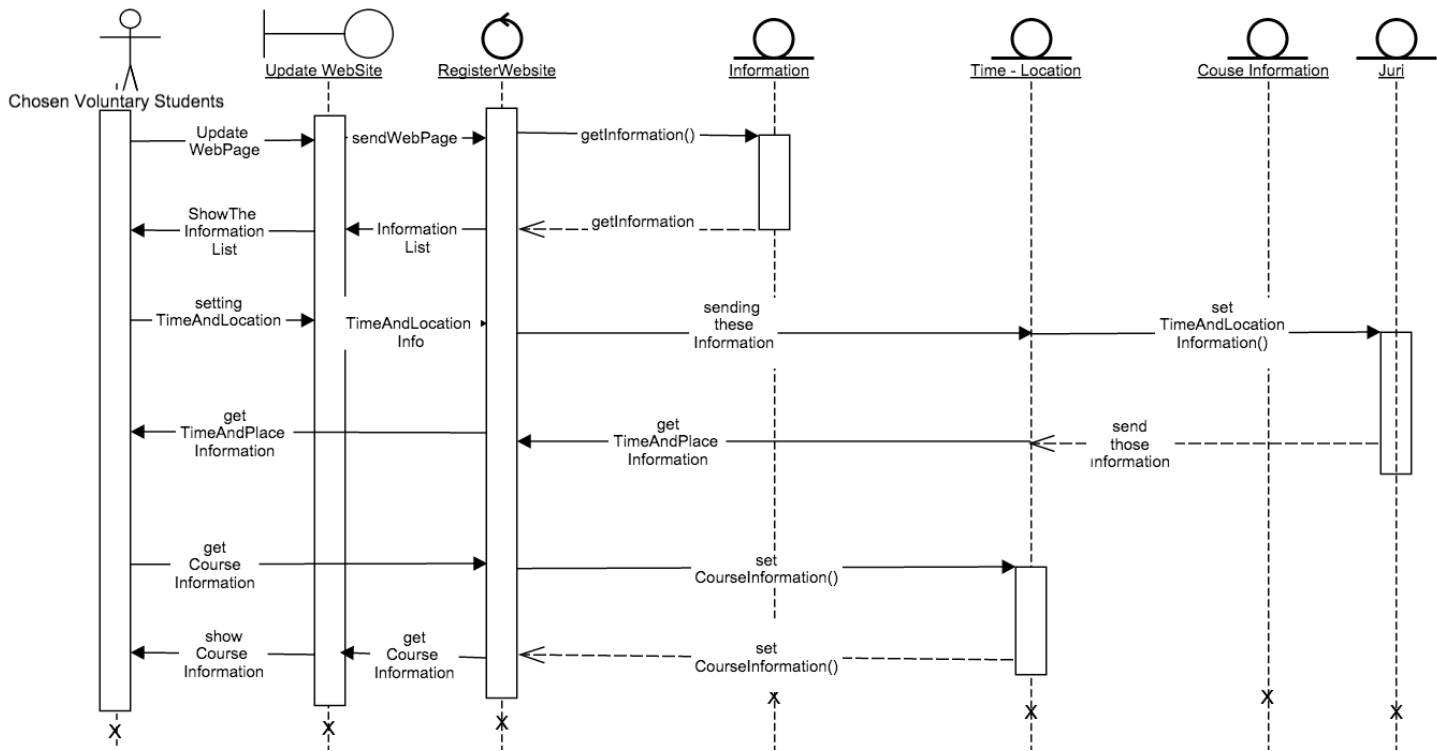
Sequence Diagram For Children:



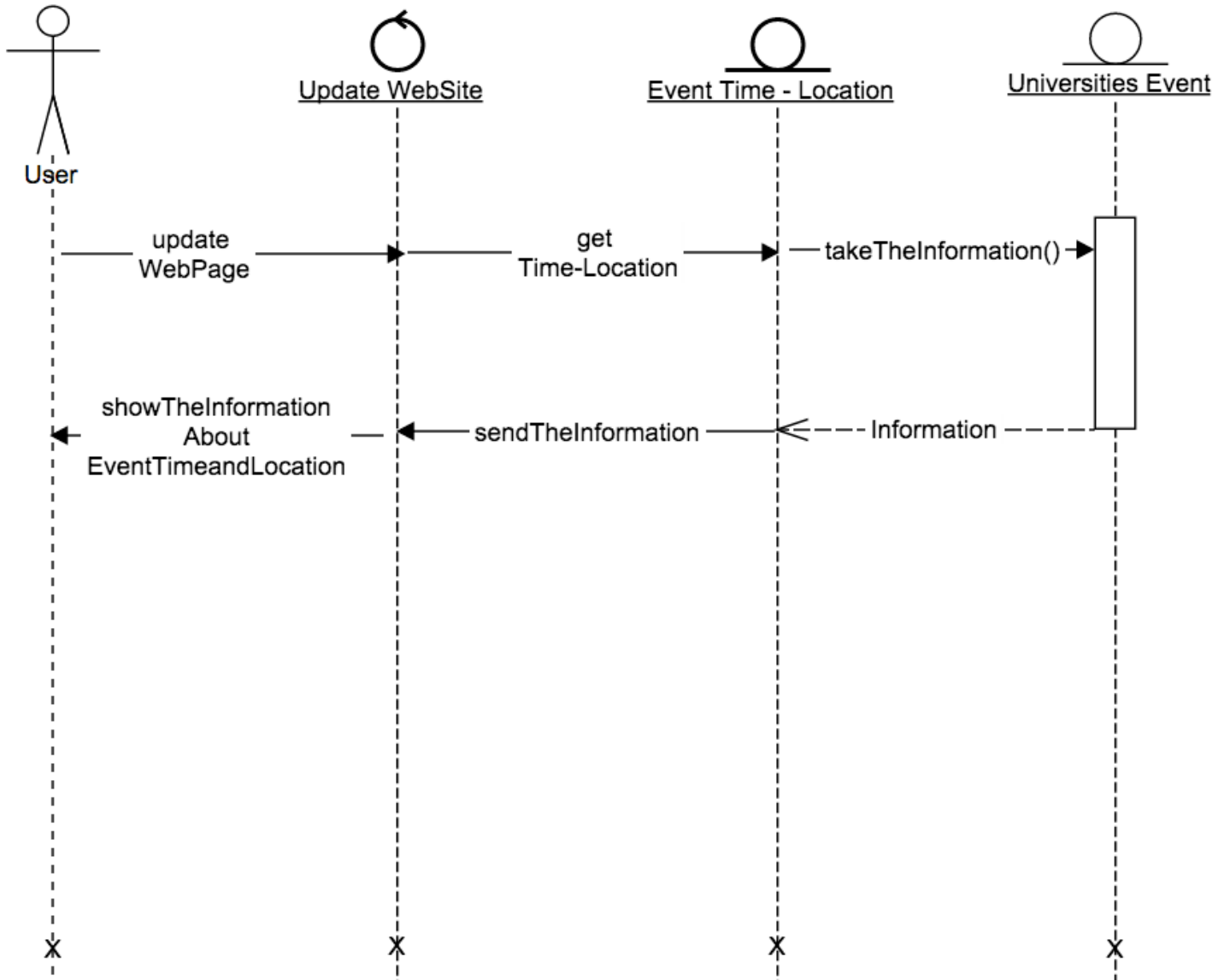
Sequence Diagram For Voluntary Students:



Sequence Diagram For Chosen Voluntary Students:



Sequence Diagram For Event:



11.HUMAN COMPUTER INTERACTION

11.1.Non-Operational Prototype (User Interfaces)

Işığ1 Gör Karanlığ1 Aydınlat

Işığ1 Gör Karanlığ1 Aydınlat Projesi



Işığ1 Gör Karanlığ1 Aydınlat Projesi bir sosyal sorumluluk projesidir. Bu projede çocuk esirgeme kurumunda yetişmekte olan çocuklara üniversitelerde öğretimini sürden öğrencilerden oluşan bir topluluktan öğretmen tahsil edilip eğitim durumlarına katkıda bulunmak planmaktadır. Sağ tarafta bulunan kategorilerden daha çok bilgi alabilir veya destek için isigigorkaranligiaydinlat@gmail.com adresine mail gönderebilirsiniz.

Sistemimize kayıtlı olan değerli gönüllü aday öğretmenlerimizin sağ tarafta bulunan sınavlar kategorisinden branşlarında vermek istedikleri dersler için yeterlilik sınavını online olarak katılıp başarılı olmaları beklenmektedir.

Sınav sonucunda juri tarafından başarı durumuna göre atanacak olan öğretmenler bu projeye dahil edilecektir.

Geliştiricileri:

Mestan Ali Tosuner

Mert Kaplan

Ara...



META

[Giriş](#)

[Yazılar](#) [RSS](#)

[Yorumlar](#) [RSS](#)

[WordPress.org](#)

KATEGORİLER

[Çocuklar](#)

[Duyurular](#)

[Etkinlikler](#)

[Juri](#)

[Seçilmiş Gönüllü Öğretmen Öğrenciler](#)

[Sınavlar](#)

This screen is the home page of the web site

Sınavlar

Matematik Sınavı

📅 30 Nisan 2015 [Yorum Bırak](#)

Matematik Sınavı

Eğer matematik hakkında gönüllü olarak ders vermek istiyorsanız yeterliliğinizi almak için lütfen sınavınızı başlatınız.

[BASLA](#)

[FAZLASINI OKU](#)

Ara...



META

[Site Yönetimi](#)

[Çıkış](#)

[Yazılar](#) [RSS](#)

[Yorumlar](#) [RSS](#)

[WordPress.org](#)

KATEGORİLER

[Çocuklar](#)

[Duyurular](#)

[Etkinlikler](#)

This screen is for the voluntary students. The stage of being examine of the students.

Seçilmiş Gönüllü Öğretmen Öğrenciler

Mayıs Ayı Öğretmenlerin Ders Programları

📅 1 Mayıs 2015 [Yorum Bırak](#)

Oğretmenlerin Detaylı Program Bilgileri

Adı: Öznur Şengel

Ders: Matematik

Yer: İstanbul Kültür Üniversitesi – Ataköy Kampüsü, 2-B-4 13:00

Tarih: 01.05.2015

Adı: Akhan Akbulut

Ders: Sosyal Bilgiler

Yer: İstanbul Kültür Üniversitesi – Ataköy Kampüsü, 2-B-3 , 07:00

Tarih: 05.05.2015

[FAZLASINI OKU](#)

Ara...



META

[Site Yönetimi](#)

[Çıkış](#)

[Yazılar RSS](#)

[Yorumlar RSS](#)

[WordPress.org](#)

KATEGORİLER

[Çocuklar](#)

[Duyurular](#)

[Etkinlikler](#)

[Juri](#)

When Voluntary student passes the exam successfully, this display comes to his/her screen. It is related to course which is about where, by whom, and date.

Matematik Ders Programı

📅 30 Nisan 2015 [Yorum Bırak](#)

Ay						
Liste						
Hafta						
Gün:						
2014	◀	2015, Mayıs			▶	2016
Paz	Pa	Sa	Ça	Per	Cu	Cum
26	27	28	29	30	1	2
3	4 1. Mayıs Ayı Matematik Ders Programı (16:00-18:00)	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23

META

[Site Yönetimi](#)

[Çıkış](#)

[Yazılar](#) [RSS](#)

[Yorumlar](#) [RSS](#)

[WordPress.org](#)

KATEGORİLER

↳ [Çocuklar](#)

↳ [Duyurular](#)

↳ [Etkinlikler](#)

↳ [Juri](#)

↳ [Seçilmiş Gönüllü Öğretmen Öğrenciler](#)

↳ [Sınavlar](#)

That page is about children.

Children can see the course time on the calendar while they enter the website.

İşığı Gör Karanlığı Aydınlat 0 + Yeni Selam, Jury

Başlangıç Yazılar Quiz

All Quizzes
Add New quiz
Quiz Category
Question Category
Certificates
Levels
Badges
Products
Report Generation
Statistics
Settings

Ortam Sayfalar Yorumlar Görünüm Eklentiler

Statistics

Deleted Instance Id 12,13

Logs

Bulk Actions Apply

<input type="checkbox"/>	Quiz	User Id	Status	Started on	Completed on
<input type="checkbox"/>	Matematik Sınavı	VoluntaryStudent	Completed	2015-05-02 00:52:22	2015-05-02 00:52:55
<input type="checkbox"/>	Quiz	User Id	Status	Started on	Completed on

İşığı Gör Karanlığı Aydınlat 0 + Yeni Selam, Jury

Başlangıç Yazılar Quiz

All Quizzes
Add New quiz
Quiz Category
Question Category
Certificates
Levels
Badges
Products
Report Generation
Statistics
Settings

Statistics

Logs Detailed Report

2+2=4 ?

- False
- True ✓

This is Juri Panel.

S/he can see the examination result and also person that had an examination.

Işığı Gör Karanlığı Aydınlat

Etkinlikler

Mayıs Ayı Etkinlik Programı

📅 1 Mayıs 2015 🗨️ Yorum Bırak

Ay						
Liste						
Hafta						
Gün:						
2014		2015, Mayıs			2016	
Paz	Pa	Sa	Ça	Per	Cu	Cum
26	27	28	29	30	1	2
3	4	5	6	7	8	9
		İl. ÇocuklarİcnEtkinlikler2	İl. ÇocuklarİcnEtkinlikler23			
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

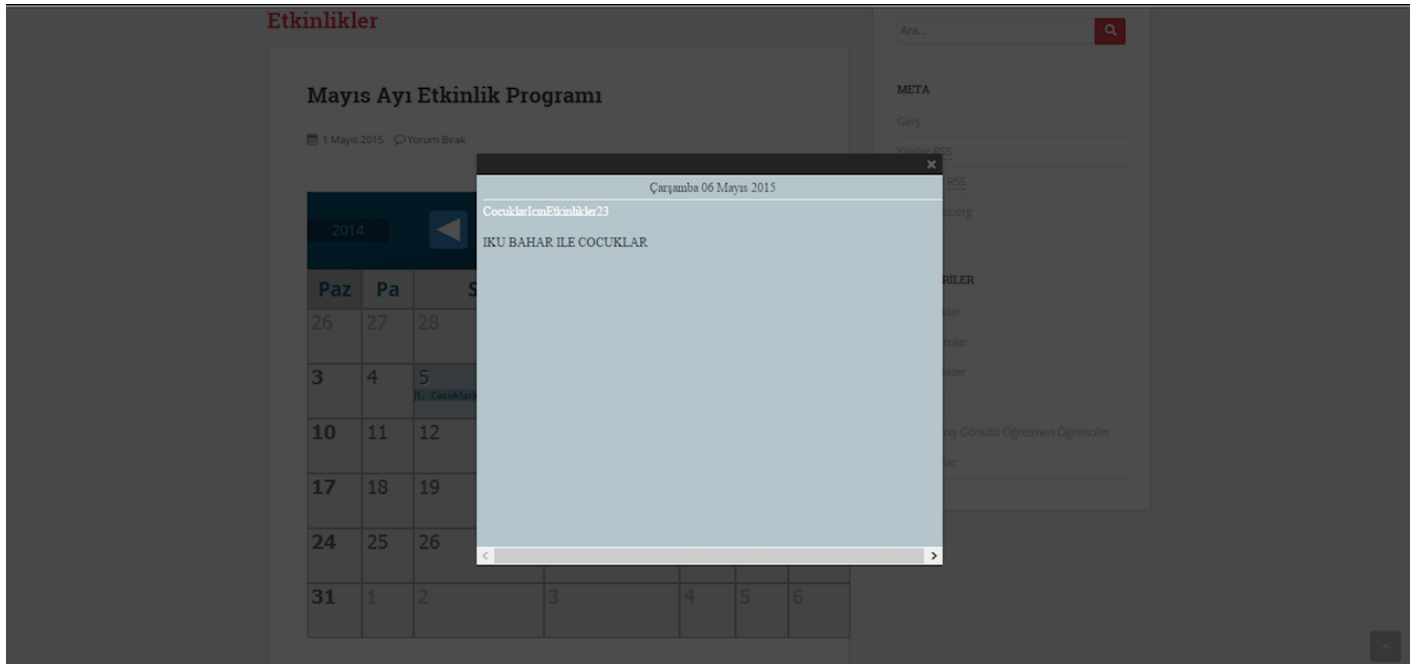
Ara... 🔍

META

Giriş
Yazılar [RSS](#)
Yorumlar [RSS](#)
WordPress.org

KATEGORİLER

- 📁 Çocuklar
- 📁 Duyurular
- 📁 Etkinlikler
- 📁 Juri
- 📁 Seçilmiş Gönüllü Öğretmen Öğrenciler
- 📁 Sınavlar



This is event part of the web site.

When there is an event in a university, children can see the event on the website.

