REPUBLIC OF TURKEY YILDIZ TECHNICAL UNIVERSITY DEPARTMENT OF COMPUTER ENGINEERING



GEZI-YORUM

13011036 — Tarık Nural 13011035 — Murat Baki Yücel

SENIOR PROJECT

Advisor Assist. Prof. Dr. Ahmet Tevfik İNAN



ACKNOWLEDGEMENTS

Yıldız Technical University is one of the seven government universities situated in İstanbul besides being the 3rd oldest university of Turkey with its history dating back to 1911.It is regarded as one of the best universities in the country as well. Our university has 10 Faculties, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 25,000 students.

The Istanbul State Engineering and Architectural Academy and affiliated schools of engineering and the related faculties and departments of the Kocaeli State Engineering and Architecture Academy and the Kocaeli Vocational School were merged to form Yıldız University with decree law no.41 dated 20 June 1982 and Law no. 2809 dated 30 March 1982 which accepted the decree law with changes.

The new university incorporated the departments of Science-Literature and Engineering, the Vocational School in Kocaeli, a Science Institute, a Social Sciences Institute and the Foreign Languages, Atatürk Principles and the History of Revolution, Turkish Language, Physical Education and Fine Arts departments affiliated with the Rectorate.

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Tarık Nural Murat Baki Yücel

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Curriculum Vitae 15

LIST OF SYMBOLS

Ai Activities of Daily Life

c Alternate Step Test

C Body Mass Index

CR Cross Step moving on Four Stops

fc(.) Dynamic Bayesian Networks

 ΔH Demura's Fall Risk Assessment Chart

λ*i* Electromyography

 Ω Faculdade de Engenharia da Universidade do Porto

LIST OF ABBREVIATIONS

ADL Activities of Daily Life

BMI Body Mass Index

CSFT Cross Step moving on Four Stops

DBN Dynamic Bayesian Networks

EMG Electromyography

FPRI Fall Prediction and Risk Index

FRI Fall Risk Index

GDP Gross Domestic Product

GUGT Get-Up-ang-Go Test

LABIOMEP Laboratório de Biomecânica do Porto

MEMs Micro-Electromechanics

MTC Minimum Toe Clearance

PCA Principal Components Analysis

SMWT Six Meter Walking Test

STST Sit-To-Stand Test

SVM State Vector Machine

SWHSA Smart Wearable Health Systems and Applications

TUGT Timed Up-and-Go Test

USB Universal Serial Bus

WHO World Health Organization

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Gezi-Yorum

Tarık Nural Murat Baki Yücel

Department of Computer Engineering
Senior Project

Advisor: Assist. Prof. Dr. Ahmet Tevfik İNAN

The goal of this project is to record travel routes of people's trips using mobile device location and to add and edit media on the route. A system will be developed that can be used to organize trips not only as people but also as a team, as well as what transport vehicles are used if they are to be visited. In the tour organized as a team, the users will be able to share their in-team location via the internet in order for team members to follow each other. It is intended that a route created by a user or a team can be examined by other users. Other users may choose the route they are reviewing as their route, or they may want to take a team tour on this route. The system to be designed will be guiding in this case. The system will need to create a social media environment to increase interaction between users. Friendship and tracking system between users will be designed. In addition personalized news flow will be provided. The person will be provided with a customized news flow that will be compiled around the person, compiled on popular routes and in the circle around friends. As a result of the project, a mobile application will be developed that stores route of a trip and medias like photos, videos, audio files tagged on the route also will provide service to interact people with shared data. Sharing trips is an additional workload for travelers. This application will offer users a practical solution to save the effort spent time on sharing a trip. In addition, the application will generate convenience not only for travelers but also for people who want to share their daily life. It will also provide an open environment for the interaction of people as it is considered to be a social media environment within the application.

Keywords: Trip, Tracker, Advisor, Social Media, Gallery Editor

Tarık Nural Murat Baki Yücel

Bilgisayar Mühendisliği Bölümü Bitirme Projesi

Danışman: Yrd. Doç. Dr. Ahmet Tevfik İNAN

Bu projenin hedefi insanların gezilerininin mobil cihaz konum verileri kullanılarak gezi güzergâhının kaydedilmesi ve güzergâh üzerinde medya ekleyip düzenlenmesini sağlamaktır. Gezilerin sadece kişiler olarak değil, takım hâlinde de düzenlenebilmesi, ayrıca yapılacak gezilerde varsa kullanılan ulaşım araçlarının neler olduğunu algılayabilecek bir sistem geliştirilecektir. Takım olarak düzenlenen gezilerde kullanıcılar, takım üyelerinin birbirini takip etmesi amacıyla takım içi konum paylaşımını internet aracılığı ile yapabilecektir. Bir kullanıcının veya takımın oluşturduğu bir güzergâhı, diğer kullanıcıların da inceleyebilmesi hedeflenmektedir. Diğer kullanıcılar inceleme yaptığı güzerâhı kendi güzergâhı olarak belirleyebilir veya bu güzergâh üzerinde takım gezisi yapmak isteyebilir. Tasarlanacak sistem bu durumda yol gösterici olacaktır. Sistemin kullanıcılar arasında etkileşimi artırmak amacıyla bir sosyal medya ortamı oluşturması gerekecektir. Kullanıcılar arası arkadaşlık ve takip sistemi tasarlanacaktır. Ayrıca kişiye özel haber akışı sağlanacaktır. Kişiye özel haber akışı sağlanarak kişinin çevresinden tavsiye edilender, uygulama içinde bulunan popüler güzergâhlar ve arkadaş çevresindeki geziler derlenerek sunulacaktır. Proje sonucunda bir gezinin rotasını, rota üzerine etiketlenen fotoğraflarını, videolarını, ses dosyalarını saklamaya imkan veren ve bunları diğer kullanıcıların etkileşimine açabilen bir mobil uygulama geliştirilecektir. Gezilerin paylaşılması geziciler için ek iş yükü teşkil etmektedir. Bu uygulama, kullanıcılarına gezi sürecinin paylaşımında sarf edilen efordan tasarruf ettirecek pratik bir çözüm sunacaktır. Ayrıca uygulama sadece gezicileri değil günlük hayatını paylaşmak isteyen insanlar içinde kolaylık üretecektir. Ayrıca uygulama içinde bir sosyal medya ortamının da olması düşünüldüğü için kişilerin etkileşimine açık bir ortam sağlayacaktır.

Anahtar Kelimeler: Gezi, Takip, Öneri Sistemi, Sosyal Medya, Galeri Düzenleyici

1 Introduction

Literature Review

BLABLA

Objective of the Thesis

There are two airports in Istanbul. Atatürk Airport is on the European Side of the city, and Sabiha Gökçen Airport is on the Asian Side. As both of the airports are located outside the city centre you may find the taxirao2012novel fees fairly expensive. The taxi from Atatürk Airport to Yıldız Central Campus will cost around Euro 35-40. In case you arrive at the Sabiha Gökçen Airport, you will need to pay double this amount to get here and you will also have to add the bridge fee to it. Communication with the taxi driver will be much easier if you write down the address and hand it to him.

Hypothesis

You may only use this method of transport from the Atatürk Airport. You can easily reach the station by following the "Metro" signs. If you have difficulties, you can easily ask airline staff for directions. In order to get on the metro, you need to buy a token from the counter. You need to use this token to go through the turnstiles in order to get to the train. You can enjoy the journey without getting stressed as you will go from the first station the last station. You can easily come out at the Aksaray Station, the last station, by following the signs. We suggest you get a taxi from here. Your location is not too close to Yıldız Central Campus but it is also not too far. The taxi from here will cost approx. Euro15.

2 General Information

Istanbul is a beautiful city of stunning architecture, history and culture. You'll find ancient and modern colleges, fascinating museums and galleries, and plenty of parks, gardens and green spaces in which to relax. Although the city is spread over a large area, you will have easy reach to anywhere you would like to go thanks to a variety of modern and developed transportation systems as well as interchangeable rail systems to long-way metrobus lines.



Figure 2.1 Landscape design of Yıldız Technical University

In Figure-2.1, landscape design of Yıldız Technical University is illustrated. The side view of the garden can be seen from Figure 2.1.

History

The stages our university has passed throughWinNT in its distinguished past are outlined below. Kondüktör Mekteb-i Âlisi/ The Conductors (Technicians) School of Higher Education (1911-1922). The Kondüktör Mekteb-i Âlisi/Conductors (Technicians) School of Higher Education was founded in 1911 in order to meet the "science officer" (known previously as conductors, and today as technicians) requirement of the Municipality Public Works Section. The school was modeled on the syllabus of the "Ecole de Conducteur" and was affiliated with the Ministry of Public Works. Enrolment began on 22 August 1911.

Nafia Fen Mektebi/ The School of Public Works (1922-1937): The school's name was changed to Nafia Fen Mektebi/ School of Public Works in 1922 and the duration of education was increased to 2.5 years in 1926 and 3 years in 1931.

Historical Advancements in the University

The school was established as an autonomous higher education and research institution with Law no. 1184 of State Engineering and Architectural Academies published on 3 June 1969.

Law no. 1472 ruled for the closing of special vocational schools in 1971, and engineering schools were affiliated with the Istanbul State Engineering and Architectural Academy.

The Yıldız University Period

The Istanbul State Engineering and Architectural Academy and affiliated schools of engineering and the related faculties and departments of the Kocaeli State Engineering and Architecture Academy and the Kocaeli Vocational School were merged to form Yıldız University with decree law no.41 dated 20 June 1982 and Law no. 2809 dated 30 March 1982 which accepted the decree law with changes.

The new university incorporated the departments of Science-Literature and Engineering, the Vocational School in Kocaeli, a Science Institute, a Social Sciences Institute and the Foreign Languages, Atatürk Principles and the History of Revolution, Turkish Language, Physical Education and Fine Arts departments affiliated with the Rectorate.

The Yıldız Technical University Period

Law no. 3837 dated 3 July 1992 renamed our university Yıldız Technical University. The Engineering Faculty was divided into four faculties and restructured as the Electrical-Electronics, Construction, Mechanical and Chemical-Metallurgy Faculties and also included the Faculty of Economics and Administrative Sciences within its organization. The Kocaeli Faculty of Engineering and the Kocaeli Vocational School were released from our university to be restructured as Kocaeli University. Today our university has 9 Faculties ¹, 2 Institutes, the Vocational School of Higher Education, the Vocational School for National Palaces and Historical Buildings, the Vocational School for Foreign Languages and more than 20,000 students.



Figure 2.2 Side view of Graduate School of Natural and Applied Sciences, Yıldız Technical University, Çukursaray, İstanbul

Mission

Our mission is to create a university which pioneers education, scientific research, technological development and artistic work aimed at the progress of society and the increase of the quality of life within an understanding of national and international solidarity; and educates creative, enterprising, questioning and ethical students equipped with universal values, who constantly renew themselves, aim for lifelong learning and are capable of analysis and synthesis.

¹2 of these faculties are located at Yildiz Campus, and the other ones are located at Davutpaşa Campus

$$\Delta l = h \Delta \theta \tag{2.1}$$

$$\frac{\Delta l}{\Delta t} = h \frac{\Delta \theta}{\Delta t} \tag{2.2}$$

$$\lim_{\Delta t \to 0} \frac{\Delta l}{\Delta t} = \lim_{\Delta t \to 0} h \frac{\Delta \theta}{\Delta t}$$
 (2.3)

$$\lim_{\Delta t \to 0} \frac{\Delta l}{\Delta t} = \frac{dI}{dt} \tag{2.4}$$

ERASMUS is the EU's flagship education and training program enabling 200 000 students to study and work abroad each year. In addition, it funds co-operation between higher education institutions across Europe. The program supports not only students, but also professors and business staffs who want to teach abroad, as well as helping university staff to receive training.

ERASMUS seeks to enhance the quality and reinforce the European dimension of higher education by encouraging transnational cooperation between universities, boo-sting European mobility and improving the transparency and full academic recognition of studies and qualifications throughout the Union.



Figure 3.1 Landscape design of Yıldız Technical University

ERASMUS consists of many different activities; student and teacher exchanges, joint development of study program (Curriculum Development), international intensive

programs, thematic networks between departments and faculties across Europe, language courses (EILC), European credit transfer system (ECTS).

ERASMUS action is targeted at higher education institutions and their students and staff in all 27 Member States of the European Union, the three countries of the European Economic Area (Iceland, Liechtenstein and Norway), and Turkey.

Application Procedure

You are expected to attach the following documents to the online application module.

- Application form
- Learning agreement
- Dormitory request form
- Signed documents
- ID Card



Figure 3.2 Landscape design of Yıldız Technical University

Table 3.1 Erasmus country codes for different national agencies according to the type of the countries

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28 Slovak Republic SK SK SK EU 29 Slovenia SI SI SI EU	26	Portugal	P	PT	PT	EU	
28 Republic SK SK SK EU 29 Slovenia SI SI SI EU	27	Romania	RO	RO	RO	Candidate	
	28		SK	SK	SK	EU	
30 Sweden S SE SE EU	29	Slovenia	SI	SI	SI	EU	
	30	Sweden	S	SE	SE	EU	

Money Exchange

The most convenient way to get money in Turkey is by using your home bank ATM/ cash card or a credit card in a Turkish ATM/ bancomat/ cash machine.

Table 3.2 Area codes for different subjects

Area Code	Subject		
1	Agricultural sciences		
2	Culture		
3	Economics		
4	Technology		
5	Horticulture		
6	Fisheries		
7	Forestry		
8	Animal		
9	Tropical Agriculture		
10	Others		

But if you want to exchange cash, plenty of places will do it for you. Currency Exchange Offices are found in tourist and market areas. They offer better exchange rates than most banks, and may or may not charge a commission. Offices in market areas tend to offer better exchange rates than those in tourist areas. Shop around for the best rate and the lowest (or no) commission.

After a Car Accident

The following is a step-by-step guide on what to do if you are involved in a traffic accident in Turkey. From 1 April 2008 it is no longer necessary to call the police to the scene of an accident in the following circumstances:**guo2004learning**

- When the accident involves two or more vehicles
- Where there is only material damage to vehicles
- When no one is injured or killed

Where all concerned parties agree to the cause and who is liable for the accident and providing each driver completes the correct form and all parties involved sign each form, including witnesses if any.

You should then submit the form to your insurance company who will use the form in conjunction with the other insurance companies concerned to settle liability. (For more details about how to access the form and instructions how to complete the form, please look at the end of this document.) **van2007experimental**

If agreement cannot be reached, you should immediately call 155 for Traffic Police

assistance and follow the guide below: Do Not Move Your Vehicle from the point of impact unless invited to do so by the traffic police or gendarme.

It is not advisable to accept an offer of financial settlement from the other parties involved. Wait for the police to arrive. Once the police arrive, you will be breathalyses and asked to produce your driving license and logbook. A preliminary report of the accident will be compiled by the police at the scene of the accident. Only when this report has been made, should you move your vehicle. It can take half an hour for the police to arrive at the scene of an accident. Do not move your vehicle.

It is essential to obtain the result of the breathalyzer test and the official police report in order to make a successful insurance claim. You will be asked to collect this within three days from the District Police Station.



Figure 3.3 Landscape design of Yıldız Technical University

This leaflet has been prepared by the British Embassy in Ankara for the convenience of enquirers. Although all care has not been taken in its production, neither Her Majesty's Government nor any Consular Official in the British Embassy in Ankara takes any responsibility for its precise accuracy or for the consequences of any action taken in accordance with its contents.

4 Results And Discussion

Once you have opened this page you will either have to log in if you are already registered, or register if this is your first visit to this page. When you first register, an e-mail will be automatically sent to you confirming your registration and giving you your password. Once you have logged in you will be able to access the registration form, and you should enter all their details.

Please note that when you have entered your university code and the name of your department, only information which is relevant to your university and department, and which is covered by the relevant bilateral agreement will be displayed.

When you have completed the form, you will find at the bottom of the page a button called 'Attach Files'. This provides a link to where you can attach your completed university application form and Learning Agreement. If you have any special conditions or modifications to the Learning Agreement, you have to contact with your relevant departmental coordinator.

When you are finished, click 'Save' and then 'Send', in order the forms to be sent to this office. Once we have your completed forms we can pass them on to your coordinator here in Yıldız Technical University. Please note that The EU Office cannot make any changes to their form once it has been submitted. Once an understanding has been reached by the coordinators about their application, a Letter of Invitation will be prepared and sent to you.

A Erasmus Policy

Yıldız Technical University is a major public comprehensive teaching and research university with high aspirations. It has devoted itself to a leading role in contributing through partnerships to socio-cultural and socioeconomic developments at the international level. It has had three years of experiences of participating in the ERASMUS program and its delivery of student and staff mobility has generally been above the national average for Turkey. We are also interested in the programs of LLP such as Comenius, Grundtvig, Leonardo da Vinci. We are going to consider organizing or participating in IP, CD or Thematic Network in the near future. Within the context of the Erasmus Program2007 – 2013, it is aimed to provide students, faculty and staff with more effective research, teaching, and service. With the Erasmus activities, we try to assess where we stood in the past, where we stand today and where we are going to stand in the future, comparing our current position with our peers. With respect to the objectives of the institutionalization of Erasmus student and staff mobility, we try to make our students and our academic staff benefit educationally, linguistically and culturally from the experience of learning in other European countries. We aim to mobilize 2.5 % of our students and 1.5% of teaching staff, by the year 2011. We will focus on the technical areas and near and new EU countries because of the exchanging our experiences.

After a Car Accident

The following is a step-by-step guide on what to do if you are involved in a traffic accident in Turkey. From 1 April 2008 it is no longer necessary to call the police to the scene of an accident in the following

B Erasmus Country Codes

In Table-B.1, the area codes for different subjects are listed. The first column of the Table-B.1 shows the name of the country and the other columns are for the codes of these countries.

Table B.1 Area codes for different subjects

Country	Code 1	Code 2	Code 3	Code 4
Cyprus	CY	CY	CY	EU
Denmark	DK	DK	DK	EU
Estonia	EE	EE	EE	EU
Germany	D	DE	DE	EU
Spain	Е	ES	ES	EU
Finland	SF	FI	FI	EU
France	F	FR	FR	EU
Greece	G	GR	GR	EU
Hungary	HU	HU	HU	EU
Iceland	IS	IS	IS	EEA
Ireland	IRL	IE	IE	EU
Italy	I	IT	IT	EU
Latvia	LV	LV	LV	EU
Liechtenstein	FL	LI	LI	EEA
Slovak Republic	SK	SK	SK	EU
Slovenia	SI	SI	SI	EU
Sweden	S	SE	SE	EU
United Kingdom	UK	UK	UK	EU
Turkey	TR	TR	TR	Candidate
Other	 -	XX		Non-participating country

In Table-B.2, the specific countries are illustrated for different codes.

 Table B.2 Abbreviations for different countries

Latvia	LV	LV	LV	EU
Liechtenstein	FL	LI	LI	EEA
Lithuania	LT	LT	LT	EU
Luxembourg	LUX	LU	LU	EU
Malta	MT	MT	MT	EU
Netherlands	NL	NL	NL	EU

Curriculum Vitae

FIRST MEMBER

Name-Surname: Tarık Nural

Birthdate and Place of Birth: 07.01.1995, İstanbul

E-mail: tariknural00@gmail.com

Phone: 0535 261 1429

Practical Training: SSI SCHAEFER

ARÇELİK A.Ş

SECOND MEMBER

Name-Surname: Murat Baki Yücel

Birthdate and Place of Birth: 04.01.1996, Kayseri

E-mail: bakiyucel38@gmail.com

Phone: 0507 915 8686

Practical Training: Pronic Yazılım

Kartaca Bilişim

Project System Informations

System and Software: Windows, Linux, Java, Android Studio, MySQL, Android, Spring Boot, Javascript, Angular JS, Mocha and Chai, Bootstrap, CSS, Android

Emulator, Postman, JUnit, Google Map API, Mail Service, Android Phone, Git

Required RAM: 1GB-512MB **Required Disk:** 512MB-2GB