



ÇANKAYA UNIVERSITY

# Internship Management System

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# Problem

- Many companies accept internships for computer engineering students. However, there is no quick way to find a suitable organization for students' theoretical competence.
- In addition, Department of Computer Engineering at Çankaya University does not have an automated system to record and manage internships for students.

# Problem

- If a student does not find a suitable organization, he/she can work on the undesirable sector.
- As a result, this issue leads to an ineffective and depressive internship process.

# Analysis

- **Assignment Problem**

The aim of the assignment models is to assign the most suitable workers to task and to set the lowest cost placement.

The goals are the minimum cost and maximum profit.

# Analysis

- **Maximal Matching Problem**

Self-stabilizing maximal matching algorithm combines all of these algorithms in the same time complexity as the previous best algorithms for opposing, equitable class, successive opposing daemon and simultaneous daemon.

Also, this algorithm improves the previous best time complexity for a distributed opposing daemon.

# Solution

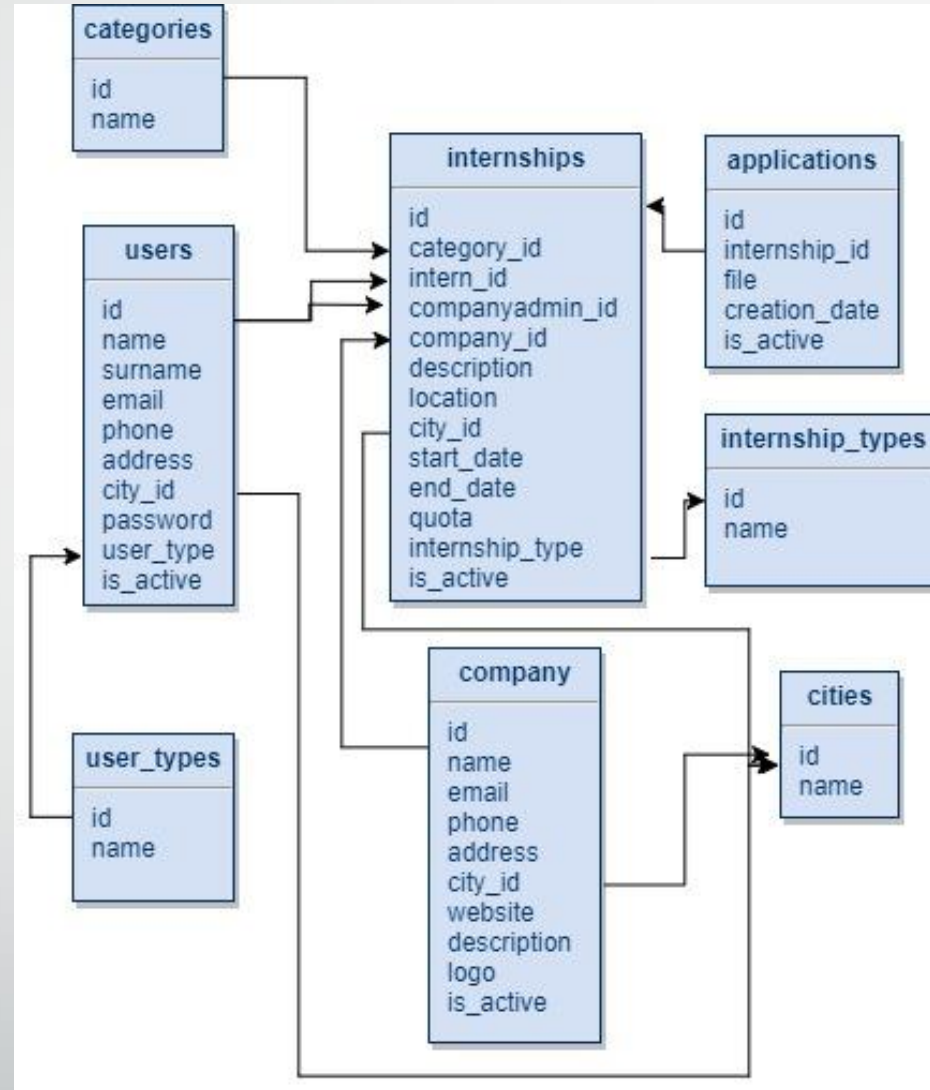


Figure 1: Database Diagram

# Solution

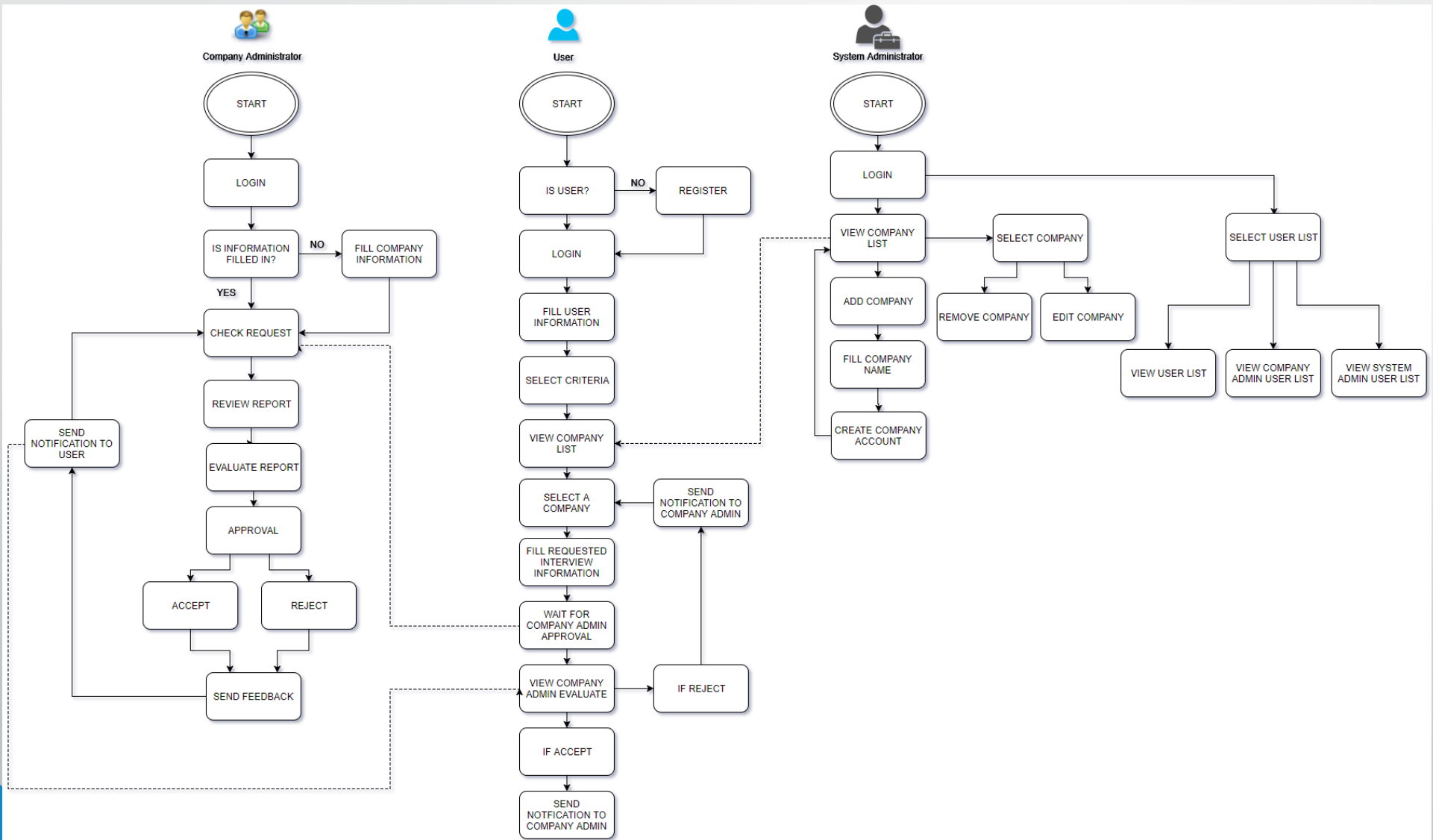


Figure 2: Flowchart



# Solution

| System Administrator:  | User:  | Company Administrator:   |
|--|--|--|
| <pre>1. System Admin enters dashboard 2. Login 3. View company list 4. If the company is listed     *Select Company     *Edit or Remove Company else     *Add Company     *Fill the company information     *go to step 3.</pre> | <pre>1. User enters website 2. If the user has an account     *Login     Else         *Register             - Fill necessary fields             - Login 3. If the user does not have information for internship     *Redirecting to user page     *Fill necessary fields     *Go to selecting criteria page else     *Redirecting to selecting criteria page 4. User selects criteria in category list for internship 5. User see companies that match the criterias 6. If company is suitable for you     *Select company else     *go to step 4 7.Fill requested interview information 8. Company admin approval     if Accept         -User gets notification         -go to step 9     else Reject         -User gets notification         -go to step 4 9. Company admin evaluate</pre> | <pre>1. Company Admin enters dashboard 2. Login 3. Check Request list 4. Select one of user's report 5. Review report 6. Evaluate report 7. Approval     *If Accept         -Send Feedback and Notification         -go to Step 3     *else Reject         -Send Feedback and Notification         -go to Step 3</pre> |

Figure 3: Pseudo Code

## Solution

- **HTML (Hypertext Markup Language):** The standard text markup language used to create Web pages.
- **PHP (Hypertext Preprocessor):** A powerful tool for making dynamic and interactive Web pages.
- **Javascript:** The programming language of HTML and the Web.
- **phpMyAdmin:** An open source tool written in PHP. Its primary use is to manage MySQL database over the internet.
- **MySQL:** An open-source relational database management system.

## Solution

- **jQuery:** A framework that can be used both as a JavaScript, as Ajax and as an effect library.
- **Ajax (Asynchronous JavaScript and XML):** Instead of reloading the entire page to user, it merely dynamically brings the necessary data to the screen or sends it to the server.
- **Database Management System:** Software that handles the storage, recovery, and updating of data in a computer system.
- **Sublime Text:** A cross-platform source code editor and text editor, containing many programming language interfaces.

# Results and Conclusions

- As a result, this web application will bring improvement to Internship Management System and I believe that there is requisition for such a web application system.
- After finishing the project, Computer Engineering students at Çankaya University will facilitate the study of students who want to find suitable internships to translate their theoretical skills into productive internship experiences.



# Project

***Source: <http://www.stajyerleri.com>***

# Project

ÇANKAYA INTERNS.

Dashboard

HomeSign Out

AkinOnline

ADMINISTRATION

Dashboard

Companies

Users2

Settings

USER

My Account

Sign Out

DashboardÇankaya Internship Management System v1.0

Latest Ads

| ID | Title       | Status    | Date                |
|----|-------------|-----------|---------------------|
| 1  | Reklamcilik | Activated | 2017-04-30 14:28:45 |

Post New Ad

View All Ads


Latest Users

| ID | Name    | Status    | Date                |
|----|---------|-----------|---------------------|
| 3  | Company | Activated | 2017-05-05 12:06:19 |
| 2  | User    | Activated | 2017-05-05 11:46:32 |
| 1  | Akin    | Activated | 2017-05-05 12:16:08 |

View All Users

Figure 4: System Administrator Dashboard

# Project

 [Browse Companies](#)

[Signout](#) [Akin](#) [EN](#)


### Company information

**Company Name \***

**Company Description \***

Describe the company

**Logo**

 Browse

Format : .jpg, .jpeg, .png, .gif

**Company Website**

**Location \***

Select a location

**City \***

Select a city

**Phone Number**

90

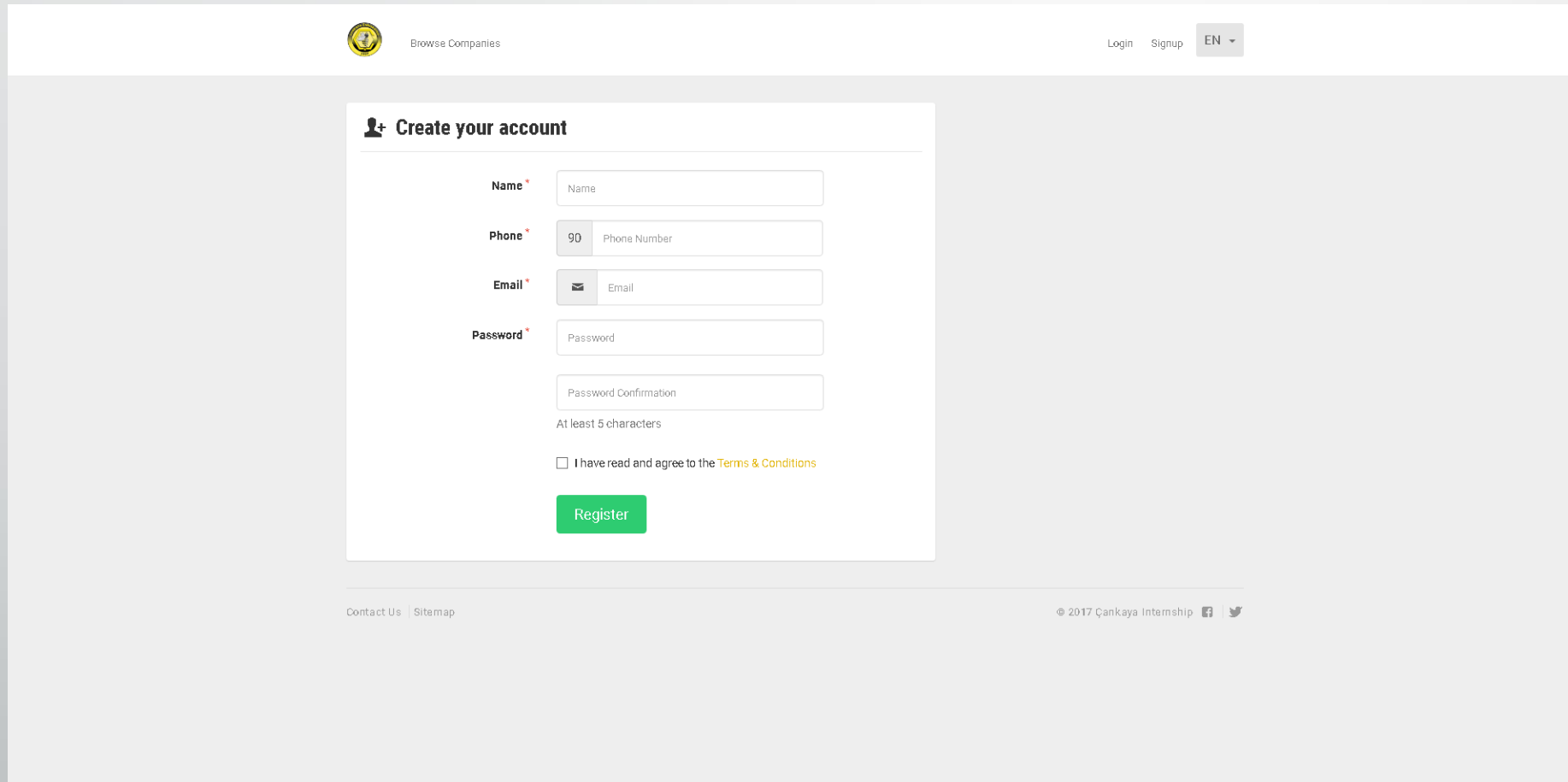
☐ Hide the phone number on this ads.

By continuing on this website, you accept our [Terms of Use](#)


Submit

*Figure 5: Add Company Interface*

# Project




The image shows a web interface for creating a user account. At the top, there is a navigation bar with a logo, a link to 'Browse Companies', and links for 'Login', 'Signup', and a language selector 'EN'. The main content area features a 'Create your account' form. The form includes fields for 'Name', 'Phone' (with a country code dropdown set to '90'), 'Email', 'Password', and 'Password Confirmation'. Below the password fields, there is a note 'At least 5 characters' and a checkbox for 'I have read and agree to the Terms & Conditions'. A green 'Register' button is at the bottom of the form. The footer contains links for 'Contact Us' and 'Sitemap', along with copyright information '© 2017 Çankaya Internship' and social media icons for Facebook and Twitter.

 [Browse Companies](#) [Login](#) [Signup](#) [EN](#)

### Create your account

**Name \***

**Phone \***

**Email \*** 

**Password \***

At least 5 characters

☐ I have read and agree to the [Terms & Conditions](#)


[Register](#)

[Contact Us](#) | [Sitemap](#) © 2017 Çankaya Internship [f](#) [t](#)

*Figure 6: User Register Interface*



# Project

 [Browse Companies](#)

[Login](#) [Signup](#)

EN ▾

## Log in

**Email Address:**



**Password:**



Login

☒ Keep me logged in [Lost your password?](#)

Don't have an account?

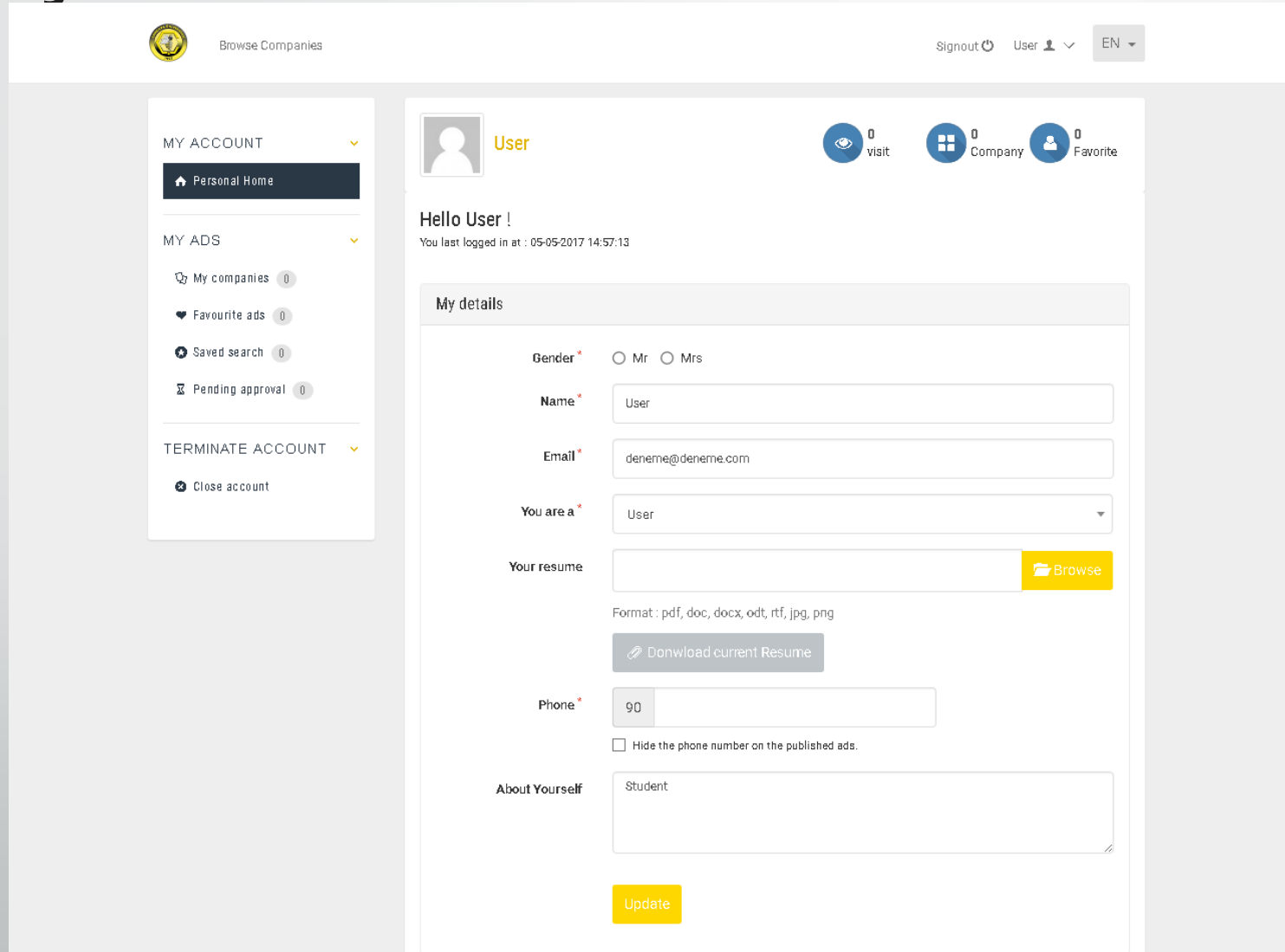
Sign Up !

[Contact Us](#) | [Sitemap](#)


© 2017 Çankaya Internship  




Figure 7: User Login Interface


# Project





The image shows a web application interface for a user profile. The layout is divided into a left sidebar and a main content area. The sidebar contains navigation links for 'MY ACCOUNT' (Personal Home), 'MY ADS' (My companies, Favourite ads, Saved search, Pending approval), and 'TERMINATE ACCOUNT' (Close account). The main content area features a user header with a profile picture, name, and statistics (0 visit, 0 Company, 0 Favorite). Below this is a greeting 'Hello User !' and a login timestamp. The 'My details' section contains form fields for Gender, Name, Email, You are a (dropdown), Your resume (with a file browser button), Phone, and About Yourself. A 'Download current Resume' button is also present. The interface is clean and modern, using a white background with blue and yellow accents.



 Browse Companies



Signout  User  EN 



**MY ACCOUNT** 



 Personal Home


**MY ADS** 


 My companies 


 Favourite ads 




 Saved search 

 Pending approval 

**TERMINATE ACCOUNT** 

 Close account

 **User**

 0 visit  0 Company  0 Favorite


**Hello User !**  
You last logged in at : 05-05-2017 14:57:13


**My details**

**Gender \*** ☐ Mr ☐ Mrs


**Name \***

**Email \***

**You are a \***  

**Your resume**  

Format : pdf, doc, docx, odt, rtf, jpg, png

 Download current Resume

**Phone \***

☐ Hide the phone number on the published ads.

**About Yourself**




Figure 8: User Profile Interface

# Project

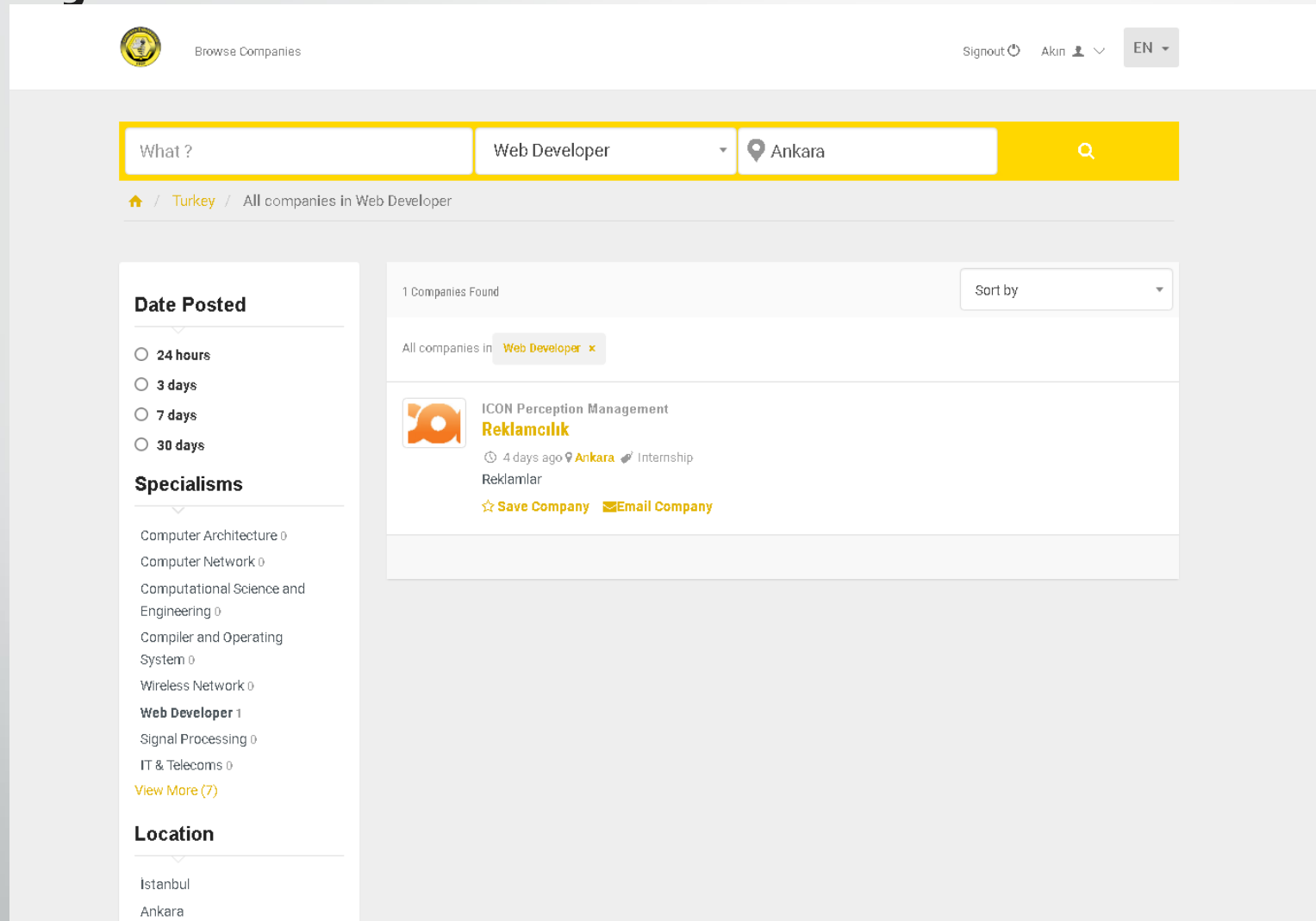


Figure 9: Search/Select Company Interface

# Project

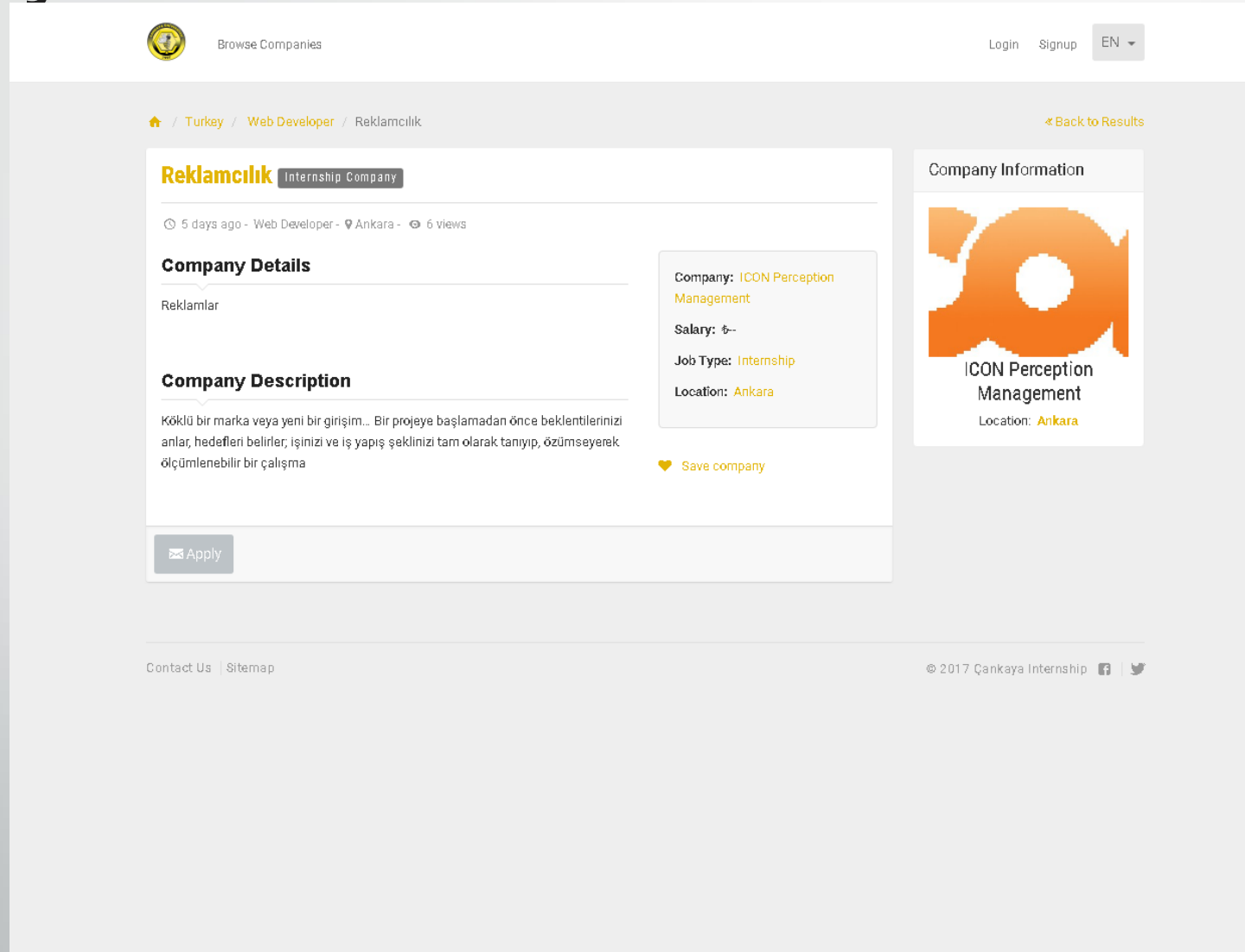


Figure 10: Company Information Interface

# Project

The image shows a web application interface for contacting a company. A modal window titled "Contact Company" is open, displaying a form with the following fields and buttons:

- Message (500 max)\***: A text area with a placeholder "Your message here..." and a character count indicator.
- Resume**: A text input field with a "Browse" button to the right.
- Format**: A label indicating supported file formats: pdf, doc, docx, odt, rtf, jpg, png.
- Download current Resume**: A button with a download icon.
- Cancel** and **Send message**: Two buttons at the bottom right of the modal.

The background shows a job listing for "Reklamcılık" (Advertising) with details about the company and job. The company name is "Reklamcılık" and the location is "Ankara". The job title is "Web Developer". The company description mentions "Köklü bir marka veya yeni bir girişimci". The job details section is partially visible, showing "4 days ago - Web Developer". The footer of the page includes "Contact Us", "Sitemap", and copyright information "© 2017 Çankaya Internship".

Figure 11: Interview Interface

# Project

ÇANKAYA INTERNS.

Company

Online

ADMINISTRATION

Dashboard

Companies

Users

Settings

USER

My Account

Sign Out

Dashboard

Çankaya Internship Management System v1.0

Çankaya Internship > Dashboard

25 records per page

Search:

| ID | Name     | Email                | Reports | Type | Approval                            | Actions                                     |
|----|----------|----------------------|---------|------|-------------------------------------|---|
| 8  | Deneme 5 | deneme5@gmail.com    |         | User | <input checked="" type="checkbox"/> | <a href="#">Edit</a> <a href="#">Delete</a> |
| 7  | Deneme 4 | deneme4@gmail.com    |         | User | <input type="checkbox"/>            | <a href="#">Edit</a> <a href="#">Delete</a> |
| 6  | Deneme 3 | deneme3@gmail.com    |         | User | <input checked="" type="checkbox"/> | <a href="#">Edit</a> <a href="#">Delete</a> |
| 5  | Deneme 2 | deneme2@gmail.com    |         | User | <input checked="" type="checkbox"/> | <a href="#">Edit</a> <a href="#">Delete</a> |
| 4  | Deneme 1 | deneme1@gmail.com    |         | User | <input type="checkbox"/>            | <a href="#">Edit</a> <a href="#">Delete</a> |
| 2  | User     | psyghost17@gmail.com |         | User | <input checked="" type="checkbox"/> | <a href="#">Edit</a> <a href="#">Delete</a> |


Showing 1 to 8 of 8 entries

[Previous](#) [1](#) [Next](#)

Figure 12: Company Administrator Dashboard

# References

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- Scott, S. (2005). *A study of stable marriage problems with ties*.
- Irving, W, R., (1990). Stable marriage and indifference. *Discrete Applied Mathematics*, pp.261-272.



Thanks for joining and listening me...

*if you have any question I will answer. 😊*