Al Imam Mohammad Ibn Saud Islamic University
College of Computer and Information Sciences

Computer Science Department

CS290 Software Engineering

Business Requirements Specification

(Tawasal Organization)

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Section: ....**372**........

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Contents

1.Introduction

1.1 Project description

Creating a website for Tawasal Organization the supports English and Arabic, the purpose of the website is to provide special technologies to support people with disabilities, the Elderly and their families.

1.2 Purpose

The purpose of this document is to describe the requirements for the " Tawasal Organization". It will explain the purpose of developing the system. This document will be proposed to the client for approval and will be a reference for the first version of the system.

1.3 Objectives

Providing outstanding services to support people with disabilities, the elderly and their families. and specialists in these courtesies.

- Developing software and systems to help people with disabilities.
- Implement an automated method of managing orders and paying fees.
- Provide an automated system for registering users.
- Manage user information with high security.
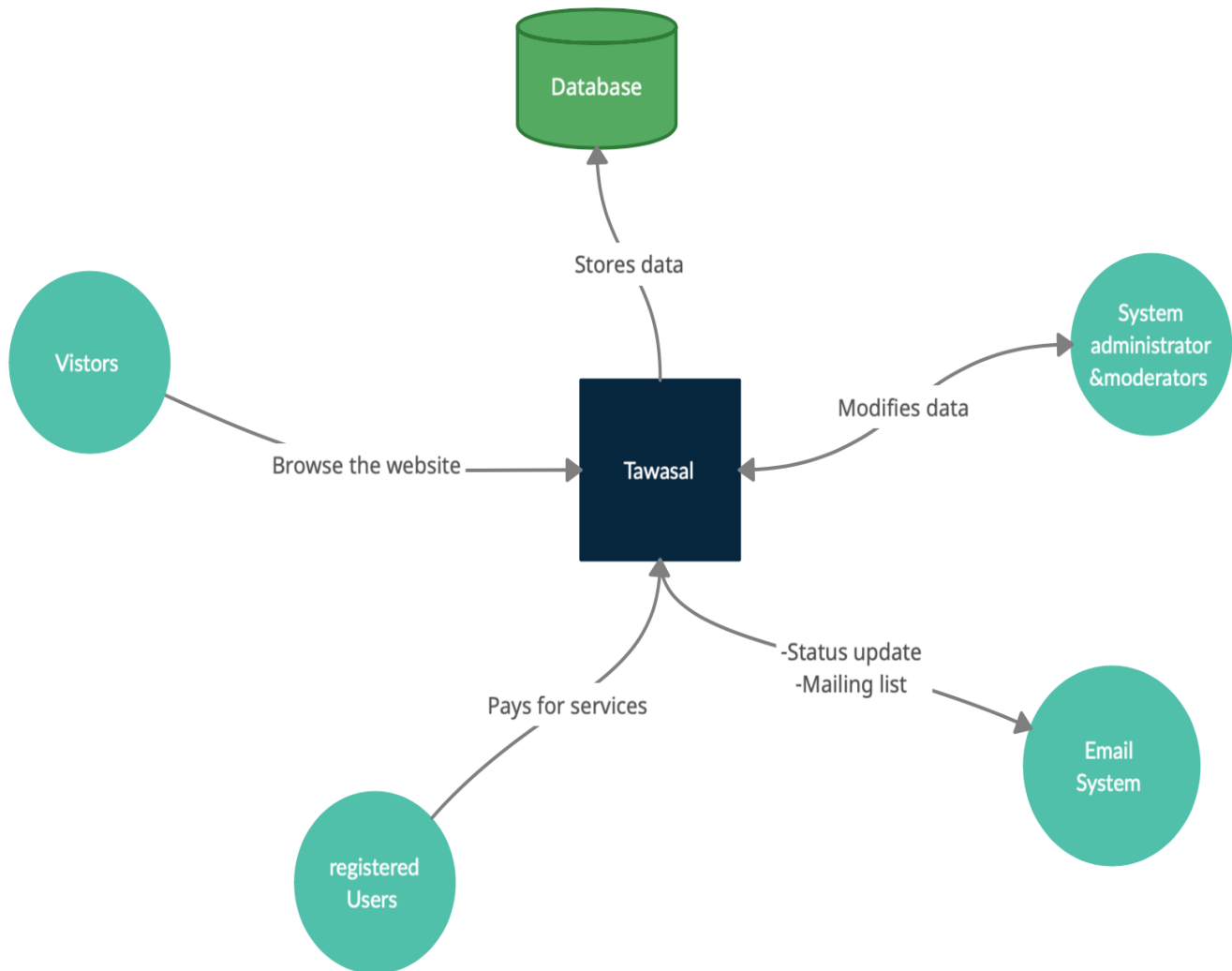- To design easy to use website.

1.4 System users

- Visitors: to view website pages only without registering account.
- Registered user: for viewing, submitting orders and paying their charge.
- System administrator: to fully control the website's content and approve.
- Moderators: to control the website's content with specific powers from the system administrator.

1.5 System components

- The system administrator control panel.
- A website for end-users.

1.6 System context

Figure 1: system context-diagram

2. Scope

2.1 In scope

- Displaying the details shall be of the various services on the site, whether entered by the system administrator control panel or approved requests by registered users.

- Submission and follow-up of requests through should be registered users on the site with the possibility of modification and deletion as a draft, and then adding before approval by the system administrator and moderators.

- The system administrator or Moderators shall be able approve or reject the requests submitted by the users with the possibility of modification in the content.

- The website shall allow a comparison of tools "technologies" that are displayed on the website should be by users.

- The link service for electronic payment of fees for Applications should be approved by the registered users submitted to them to appear on the site.

- Payment methods are SADAD, Credit Card, PayPal but are only implemented shall be after the availability of APIs from the organization that makes financial agreements with a bank or intermediary company.

- Sorting should be within a site-specific service by users.

- Add comments and ratings of services and control them should be by the system administrator.

- Automated email should be alerts for registered users.

- Registered users should send email messages to the system administrator.

- The service of subscribing should be to the mailing list to send what is announced on the news page by mail to users.

- Calendar service for workshops and conferences to browse their details shall be through the calendar.

- Attach images, PDFs, videos, and links shall be to the page content.

- Managing site registered users and their requests and comments shall be through the system administrator and the ability to disable a user.

- System manager management of basic definitions, lockups, such as cities, requests, types of disabilities, services, free market, which are used in other dropdown lists to choose should be from instead of entering them as fixed options.

- Managing service fee settings should be to be paid by registered users applying for each service.

- Managing the system administrator and Moderators for all the various services shall be within the website in terms of addition, modification, deletion and deactivation.

- The service of donating supplies for people with disabilities through the contact of the user who wants to donate with the system administrator, after which the donation request will be accepted.

2.2 out of scope

- The system should support text-to-speech services and each image and picture caption icon.
- The system should allow registered users to log-in or sign-up through their Facebook or Google accounts.
- The system should manage the payment and Refund fee through the website.
- The system should allow the registered users to message each other.
- The system should make the payment methods through the system.
- The system should have an option for the registered user to sends them mobile messages as notifications.
- There should be a donation icon that contains data on the thing to be donated. After that, the donation request is transferred to the system administrator for the request to be accepted.

3.System Analysis

3.1 System requirements

- The website shall be implemented with Drupal technology.
- The website shall be in Arabic as default and it shall allow to be changed to English, the system will change all display screens and pages, whether for users or to the control panel with the content that has been entered in each screen.
- The system shall be compatible with tablets and mobile devices.
- The system shall display the website details through the default home page without registering an account or log in as a visitor.
- The system shall allow the visitor can also change the background colors, font, and the mouse pointer of the website, there are three templates for the user to choose from so that cookies are only cleared without permanently installing the website friendly design, the colors agreed upon according to the logo of the website.
- The system shall not accept requests by the visitor only after registering an account and then log in to the website.
- The system shall complete the payment for the registered user is made after the application has been approved by the system administrator.
- The system shall make submitted request goes through specific stages, from its submission to its appearance on the website, as it consists of the following cases:
  1. New: After creating a new request as a draft and saving it without sending it to the system administrator.
  2. Pending approval: After sending the request, it goes from a draft to the system administrator to process.
  3. Waiting for payment: After the system administrator approves the request.
  4. Rejected: After the system administrator rejected the request.
  5. Paid: After paying the request fee by the user, to appear on the website.
  6. Hidden: After hiding a request from appearing on the website through the user who is the applicant or the system administrator.
- The system shall send email alerts to registered users at every stage of the order.
- The system shall have the possibility of activating and deactivating the appearance of any specific service on the website through the system administrator control panel.

3.2 functional requirements

Homepage

Website header
- Registered users shall have log-in and log-out icons.
- The system shall have "personal profile" icon for changing personal information, password and customizing the background, font and pointer shape.
- The system shall have an icon for submitting requests.
- The system shall have an icon for changing the website language website.
- The system shall provide an icon for user notifications.
- The system shall have an icon for sending a message to System administrator.
- The system shall provide corporate ads.
- The system should have user manual page.

Pages links "Inside each page sub-links with their details"
- The system should provide news list for the website news.
- The system shall provide assistive technologies and their classifications.
- The system shall have home care blogs.
- The system should provide a link to the free market which allows the registered users to either put tools for donations or sell them.
- The system shall have rehabilitation centers page for the service they provide.
- The system should have workshops and conferences either from or outside of the organization.
- The system shall have page for volunteers' applications.
- The system shall provide an icon for on every page for users to submit new orders.

Management page "System administrator and Moderators"

User management and protection
- The system shall provide sign in and sign out option.
- The system shall manage the roles and powers of the system administrator.
- The system shall manage the registered users, their roles and displaying their profiles.

Website content management
- The system shall allow viewing and managing submitted requests.
- The system shall manage various website definition.
- The system shall manage the website settings.
- The system shall manage all website services in terms of addition, modification, deletion, deactivation and installation.

3.3 Non-functional requirement

Security

- Registered users shall receive notification of profile changes via Email.
- The access permissions for system data may only be changed by the system's data administrator.
- The paying process should be on the website.
- The system shall allow the user the option of deleting "cookies".
- Passwords shall always be encrypted, not even the system administrator shall see clear text passwords.

Maintainability

- The system shall not be shut down for maintenance more than once in a 24-hours.

- The system shall recover the email services once they become unavailable in under three hours.

Usability

- The system shall be easy to use by adult members (age 18 to 80) of the public who may be disabled.
- The system shall have the ability to turn text into speech.
- The system shall have the option of changing the language of the website.

Reliability

- The error rate of users submitting their payment details at the checkout page shouldn't surpass 10 percent.

- The respond to users' actions shall be less than 15 secs.

Documentation

- The system shall maintain data by keeping backups of all updates to the database for user's information.