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DEPARTMENT OF COMPUTER ENGINEERING



SOFTWARE REQUIREMENTS SPECIFICATION
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afetbilgi.com

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1 Introduction

This document is the Software Specification Requirement (SRS) of a website designed to help earthquake victims to acquire necessary information and give volunteers a chance to donate for helping earthquake victims. The website is called afetbilgi.com developed by METU students and graduates.

1.1 Purpose of the System

The purpose of the system is providing information which may be required for a earthquake victim and providing option to volunteers to donate to several institutions and organizations.

1.2 Scope

1.3 System Overview

1.3.1 System Perspective

afetbilgi.com [1] is not a part of a larger system. It is a standalone and open source efforted website to verify important information in the fight against the 6 February 2023 Pazarcik Earthquake and to deliver it to both disaster victims and those who want to help in an understandable, concise manner in multiple languages.

This information is presented in either the form of legible tables with 3rd party governmental and private links or an interactable method via a map view interface. If deemed necessary, admin and maintainers can make changes to display

newly created or edited data and upload it to the system upon any complains or suggestion they may get on their contact details.

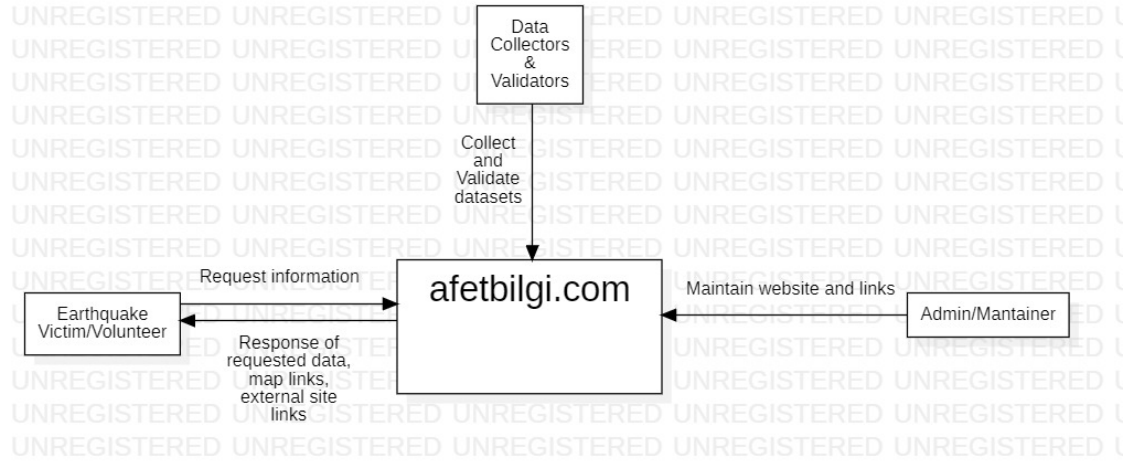


Figure 1: Context Diagram for afetbilgi.com

1.3.2 System Functions

1.3.3 Stakeholder Characteristics

1.3.4 Limitations

1.4 Definitions

2 References

This document is prepared with respect to IEEE 29148-2011 [2] standard.

References

- [1] A. B. İşlem Merkezi, *Afetbilgi — afetler hakkında doğru ve güncel bilgiler*, <http://www.afetbilgi.com/>, February, 2023.
- [2] IEEE, “29148-2011 - iso/iec/ieee international standard – systems and software engineering – life cycle processes – requirements engineering,” IEEE Standards Association, Standard, 2011. DOI: 10.1109/IEEESTD.2011.6146379. [Online]. Available: <http://ieeexplore.ieee.org/document/6146379/> (visited on 04/12/2023).

3 Specific Requirements

3.1 External Interfaces

3.2 Functions



Figure 2: Use Case Diagram for afetbilgi.com

Use Case ID	0
Use-Case Name	Donate or Help
Actors	Volunteer or Helper and Website maintainers
Description	Whenever a site user wants to donate or help earthquake victims, he or she can view verified and updated institutions and organisations, which he or she can donate to, on the website to donate to
Data	Verified and updated directory of external 3rd party links of welfare and governmental organisations
Preconditions	The directory must be updated and verified regularly given the potential monetary usage of the links in the future by the users
Stimulus	User clicks on the relevant donation/help methods listed as bold text buttons in the “To Help” category on the website
Basic Flow	<p>Step 1: User clicks on “Digital solidarity campaigns”</p> <p>Step 2: User selects any of the presented external-3rd party links(presented in a directory)</p> <p>Step 3: User redirected to verified 3rd party website</p>
Alternative Flow #1	<p>Step 1: User clicks on “Other donation”</p> <p>Step 2: User selects relevant city</p> <p>Step 3: User selects verified helper links of individuals/smaller organisations along with their contact details</p> <p>Step 4: User clicks on any link and escorted out to a 3rd party site</p>
Alternative Flow #2	<p>Step 1: User clicks on “Kizilay Blood Donation Places”</p> <p>Step 2: User automatically redirected to primary verified 3rd party site of governmental organisation accepting blood donations</p>
Exception Flow	-
Post Conditions	User is redirected to a verified external website out of the afetbilgi.com domain

Table 1: Use Case - Donate or Help

Use Case ID	1
Use-Case Name	Access open maps
Actors	Volunteers or Victims, Website maintainers
Description	Users can view current location with respect to places in need of help and use interactive map view to track down relevant places offering help (verified by site maintainers) via GPS location
Data	Interactive Map View with relevant place descriptions to navigate on
Preconditions	Places ought to be verified, properly categorised and color coded for easy understanding by site user
Stimulus	User drags mouse around on map view involving GPS after clicking on the map button anywhere on screen or calling <code>maps.afetbilgi.com</code> directly in the browser
Basic Flow	<p>Step 1: User is shown his current location with respect to rest of Turkey</p> <p>Step 2: Users can zoom in or out of Turkey's map and track themselves to needy areas as per color codes and categorisation</p> <p>Step 3: User can click on a tracked down helping house, restaurant, etc. and be greeted by a pop up box with description and relevant links to third party sites or Google Maps routes</p> <p>Step 4: User can click on the links and escorted out to 3rd party websites or Google Maps website</p>
Alternative Flow #1	<p>Step 1: User can select zoom in or out along with clicking on the camera icon</p> <p>Step 2: User can save map screenshot for later use or distribution</p>
Alternative Flow #2	-
Exception Flow	-
Post Conditions	User ends up on verified external website outside of <code>afetbilgi.com</code> domain

Table 2: Use Case - Access open maps

Use Case ID	2
Use-Case Name	Generate PDFs to distribute website
Actors	Volunteers or victims
Description	Users can save filtered out website directories for later use given possible lack of electrical or network necessities in these earthquake stricken areas
Data	Separate downloadable PDF documents after selecting relevant cities
Preconditions	User is able to select entire cities with verified directory links and contact information
Stimulus	User clicks on PDF icon button anywhere on the website
Basic Flow	<p>Step 1: User clicks on PDF icon anywhere on website</p> <p>Step 2: User selects city</p> <p>Step 3: Document is loaded and enabled for download by the user with the relevant city and categories highlighted on it</p>
Alternative Flow #1	-
Alternative Flow #2	-
Exception Flow	-
Post Conditions	Site user has received well formatted and legible generated PDF document with relevant hyperlinks and contact details of verified directories

Table 3: Use Case - Generate PDFs to distribute website

- 3.3 Usability Requirements**
- 3.4 Performance Requirements**
- 3.5 Logical Database Requirements**
- 3.6 Design Constraints**
- 3.7 System Attributes**
- 3.8 Supporting Information**

4 Suggestions to Improve the Existing System

4.1 System Perspective

4.2 External Interfaces

4.3 Functions

4.4 Usability Requirements

4.5 Performance Requirements

4.6 Logical Database Requirements

4.7 Design Constraints

4.8 System Attributes

4.9 Supporting Information