



MIDDLE EAST TECHNICAL UNIVERSITY
DEPARTMENT OF COMPUTER ENGINEERING



SOFTWARE REQUIREMENTS SPECIFICATION
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afetbilgi.com

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1 Introduction

1.1 Purpose of the System

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.

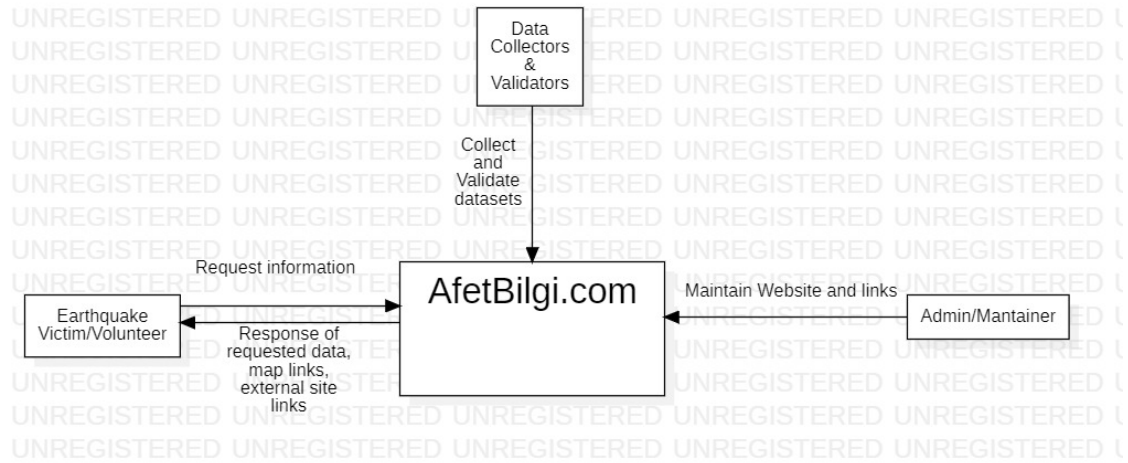


Figure 1: Context Diagram for afetbilgi.com

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 | - 9 |
| 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