

Hazard Analysis Software Engineering

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Table 1: Revision History

Date	Developer(s)	Change
Oct 17 2022	Jeremy	Added 2 FMEA table entries related to web application hazards
Date1	Name(s)	Description of changes
Date2	Name(s)	Description of changes
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[You are free to modify this template. —SS]

1 Introduction

[You can include your definition of what a hazard is here. —SS]

2 Scope and Purpose of Hazard Analysis

3 System Boundaries and Components

4 Critical Assumptions

[These assumptions that are made about the software or system. You should minimize the number of assumptions that remove potential hazards. For instance, you could assume a part will never fail, but it is generally better to include this potential failure mode. —SS]

5 Failure Mode and Effect Analysis

Table 2: Failure Mode and Effect Analysis

Design Function	Failure Modes	Effects of Failure	Causes of Failure	Reccomended Action	SR	Ref.
User log in	Display error notification on log in page that system is down and remove user sign in capability	User cannot log in to system	App hosting platform or database are under maintenance	Wait and try again later	TODO	TODO
Database Access	Database is inaccessible	User cannot view progress or stored personal data	Database connection failure	Await database backup and restoration	TODO	TODO

6 Safety and Security Requirements

[Newly discovered requirements. These should also be added to the SRS. (A rationale design process how and why to fake it.) —SS]

7 Roadmap

[Which safety requirements will be implemented as part of the capstone timeline? Which requirements will be implemented in the future? —SS]