

Name: Temitope C Folowosele
Project: Threat Modelling-OWASP Dragon

temmytech solutions web app threat model

Project Summary

Threat Modeling: [temmytech solutions web App]

On this project I focus on threat modeling using OWASP Threat Dragon and the STRIDE methodology to proactively identify security weaknesses in the [temmytech solutions web App] design.

Key Deliverables

System Decomposition: I created a Data Flow Diagram (DFD) to map all system components, actors, data flows, and critical trust boundaries.

Threat Analysis (STRIDE): I systematically analyzed each component and data flow using STRIDE to generate a comprehensive list of potential threats (Spoofing, Tampering, Repudiation, etc.).

Risk & Mitigation: I documented and prioritized specific countermeasures for each threat to ensure security controls were applied early in the development lifecycle.

Artifact: The resulting threat model is stored as a version-controlled JSON file alongside the application code.

Owner: All
Reviewer: Analyst Peter
Contributors: Date Generated: Tue Dec 02 2025

Executive Summary

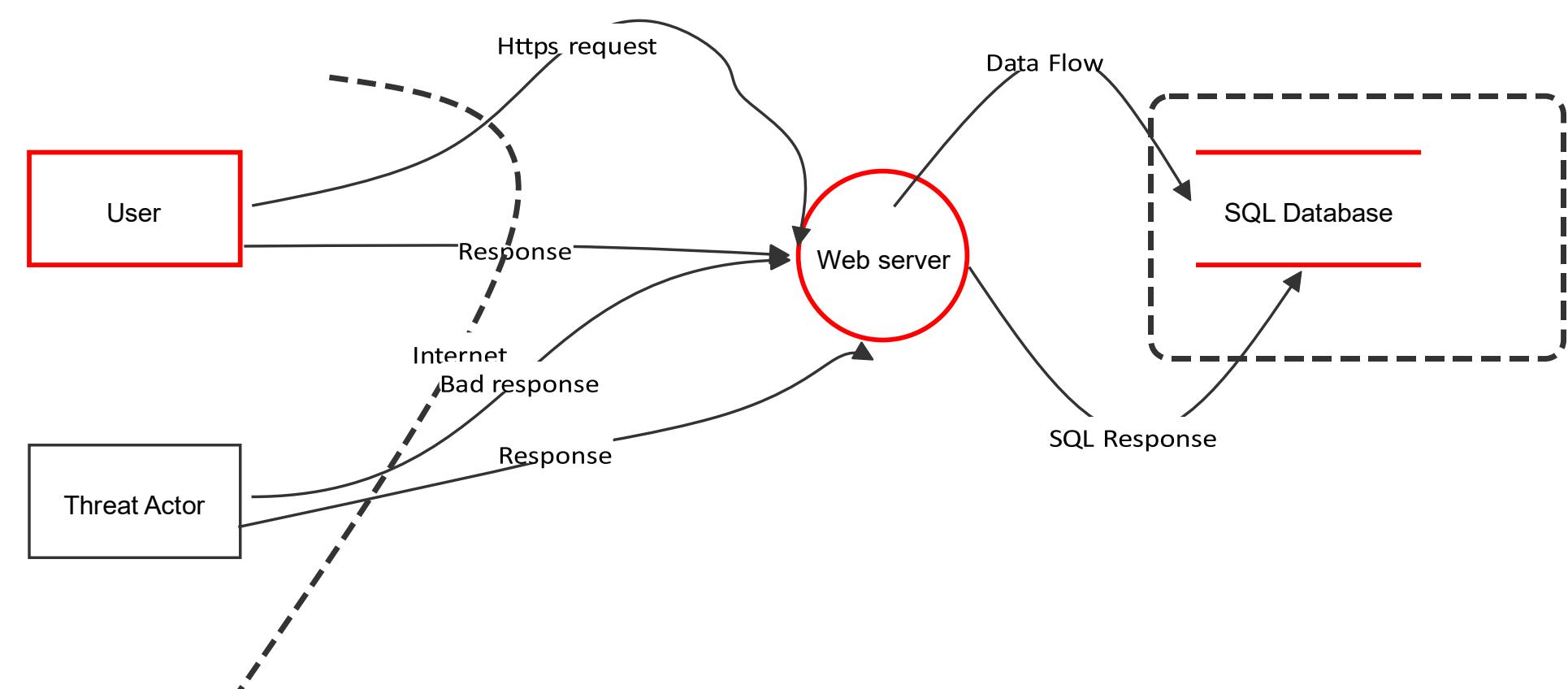
High level system description

Not provided

Summary

Total Threats	12
Total Mitigated	0
Total Open	12
Open / Critical Severity	0
Open / High Severity	0
Open / Medium Severity	0
Open / Low Severity	0
Open / TBD Severity	12

temmytech web app DFD



temmytech web app DFD

User (Actor)

Description: Normal user authenticated/unauthenticated

Number	Title	Type	Severity	Status	Score	Description	Mitigations
11	New STRIDE Spoofing	TBD threat	Open			Falsely assuming Identity	Authentication, certificates, Encryption
12	New STRIDE Repudiation	TBD threat	Open			User/system denies performing an action/transaction, exploiting a lack of evidence	Secure extensive logging and digital signatures to ensure non-repudiation.

Threat Actor (Actor)

Description: Bad user authenticated/unauthenticated

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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Web server (Process)

Description: The web host

Number	Title	Type	Severity	Status	Score	Description	Mitigations
5	New STRIDE threat	Spoofing	TBD	Open		Users can be impersonated	Using customized professional Domains
6	New STRIDE threat	Tampering	TBD	Open		Provide a description for this threat	Provide remediation for this threat or a reason if status is N/A
7	New STRIDE threat	Tampering	TBD	Open		Unauthorized data modification	File integrity monitoring
8	New STRIDE threat	Information disclosure	TBD	Open		Unintentional exposure of data	Disable verbose errors, remove server banners
9	New STRIDE threat	Denial of service	TBD	Open		Overwhelming a server or application with a load of traffic	Rate limiting

Https request (Data Flow)

Description: Normal https request

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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Response (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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Response (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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Data Flow (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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SQL Response (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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Bad response (Data Flow)

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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SQL Database (Store)

Description: Stores everything

Number	Title	Type	Severity	Status	Score	Description	Mitigations
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1	SQL threats	Tampering	TBD	Open		Integrity of the stored documents could be compromised	Encrypt data
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2	New STRIDE threat	Repudiation	TBD	Open	Uncaptured logs		Implement a trail system to manage logs.
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3	New STRIDE threat	Information disclosure	TBD	Open	Unauthorized access to con dental data		MFA
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4	New STRIDE Denial of service	TBD	Open	Compromising availability of authorized users data	Rate limiting threat		
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