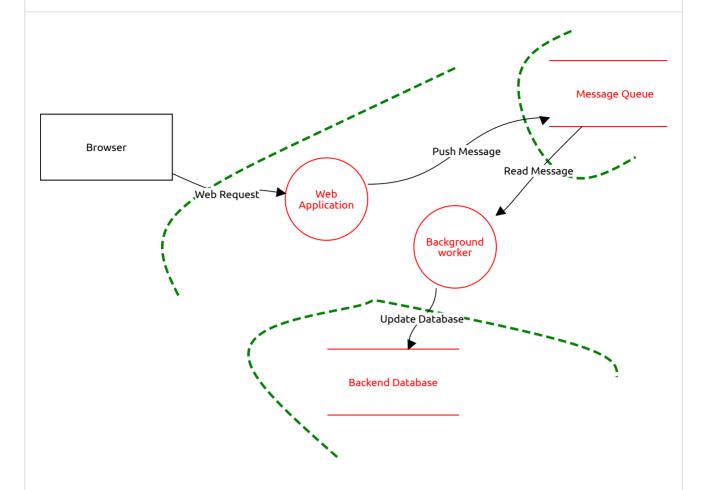
Threat model report fo	First Threat Model	
Owner:		
Pravin		
Reviewer:		
Pravin		
Contributors:		
High level system descr	ption	
First Threat Model		

# Threat diagram



Browser (External Actor)

# Description:

No threats listed.

# Web Application (Process)

# Description:

# Comprimise user account

Spoofing, Open, High Severity

# **Description:**

An attacker could send a request pretending to be another person and access that person's data.

# Mitigation:

Implement Multi-factor authentication.

# Backend Database (Data Store)

## **Description:**

#### Unauthorized access

Information disclosure, Open, High Severity

#### **Description:**

An attacker could make an query call on the DB to retrive data that is private, confidential & controlled data.

#### Mitigation:

Authenticate all queries & sanitize SQL injection payloads

## Tampering Data In Use

Tampering, Open, Medium Severity

# **Description:**

An attacker could modify an account number in the database to divert payment to their own account.

## Mitigation:

Restrict access to the database using a firewall.

# Covering the tracks

Repudiation, Open, Medium Severity

#### **Description:**

Attacker can cover the unauthorized actions

#### Mitigation:

Log all changes to bank account numbers and audit the changes.

Web Request (Data Flow)

# **Description:**

No threats listed.

# Background worker (Process)

## **Description:**

#### Poison Message

Denial of service, Open, Medium Severity

#### **Description:**

An attacker could generate a malicious message that the Background Worker cannoy process.

#### Mitigation:

Maintain a retry count on message and discard them after three retries.

# Message Queue (Data Store)

# **Description:**

## Message secrecy

Information disclosure, Open, Medium Severity

## **Description:**

Messages could be read by an attacker at rest in the Message Queue.

#### Mitigation:

Use message level encryption for high sensitivity data (eg. security tokens) in messages.

## Message Tampering

Tampering, Open, Medium Severity

# **Description:**

Once Message on the queue are disclosed then attacker can tamper the messages on the queue.

#### Mitigation:

Digitally sign message on the queue and validate their signature before processing.

Description:			
No threats lis	ted.		
Read Messa	ge (Data Flow)		
Description:			
No threats lis	ted.		
Update Dat	abase (Data Flow)		
Description:			
No threats lis	ted.		