

Part 2:Risk Management

Risk 1

Name of the Risk:Browsers and Devices

Severity:-High

Probability of occurrence:-High

Description of risk:-We don't know whether the website works across various browsers and devices during exploratory testing , in addition to when it undergoes a code change.Our users visiting web api on a wide range of configurations which means we need to test our site on them, too.

plan to minimize risk:-

We are using Bootstrap to make sure it will fit in any screen whether it may be a laptop screen ratio or mobile phone screen ratio.we will run our web api on every platform to see whether it is working or not.It is good that planning and strategizing our testing means that we can target quality where it matters the most.

Risk 2:-

Name of the Risk:-Digital Payment Security

Severity:-High

Probability of occurrence:-medium

Description of risk:- Since we accepting digital payments in our system the risk of cyber threats like phishing or online malware attacks , DDOs hacking and credit card fraud might become issues..when the user chooses online payment he shall be entering all the card details in the web application .The hackers might obtain employee credentials through phishing.The hacker may obtain the account details and card details that used to pay. This is first risk that need to be addressed whenever someone is building a ecommerce website.

Plan to minimize risk:-

We are planning to deploying multi-layered security system,additionally implementing PCI(payment card industry) scans.Strong user- passwords or two-factor authentication(2FA) to add an extra layer of accountability.

Risk 3

Name of the Risk:Buyer Journey

Severity:-High

Probability of occurrence:-High

Description of risk:-Going from “Add to Cart” to “order Confirmed” includes many moving parts, and if one of those parts isn’t working, it may impact your customer’s ability to complete their purchase.

Plan to minimize risk

Testing the different ways to pay — credit card vs. PayPal — may take priority over testing autofill for form fields, for example. We shall make a ranking of some of the test cases that come up during payment, and make sure the ones at the top are included in testing.

Risk 4:-

Name of the Risk:-Platform Downtime

Severity:-Low

Probability of occurrence:-High

Description of risk:-Since our system is mostly uses for authentication and database management whenever the firebase server is down our whole system is going to stop.

Due to frequent updates in devices, we need to update the servers and the html and css codes or else the system will go down.

Plan to minimize risk:-

Update the servers frequently and check for any bugs

Risk 5:-

Name of the Risk:Passwords

Severity:-High

Probability of occurrence:-High

Description of risk:-Due to weak passwords created by the customers while signing up in the system. The attackers may be able to deduce the passwords and login into the customers account.

Plan to minimize risk:-

To minimize the risk

- Passwords must be at least 8 characters long and contain a combination of upper/lower case letters, numbers and symbols
- Block account access after 4 failed login attempts
- During the signup process, provide users with guidelines on how to choose a strong password
- Provide password strength assessment as passwords are being created.

