

Library Automation System

Maintenance Report:

- Fault Detection and Correct faults.
 - Improve the design.
 - Implement enhancements.
 - Interface with other systems.
 - Accommodate programs so that different hardware, software, system features, and telecommunications facilities can be used.
 - Migrate legacy software.
 - Retire software.
 - Monitoring app using the tool sentry.
 - App Update
 - Security Updates
 - Backing up our data.
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- ❖ Fault Detection and Correct faults:
 - Discovering a failure in hardware or software. Fault detection methods, such as built-in tests, typically log the time that the error occurred and either trigger alarms for manual intervention or initiate automatic recovery.

- In future we are going to correct the Faults by doing analysis and modification or addition to repair, correct or circumvent a Fault in the Software, so that the Software operates substantially in accordance with the specifications for the Software on the effective date of this Agreement.

❖ Improve the design:

- In order to differentiate and stand out among the competitive software we are going to make valuable design changes to our software.
- Improving Design also adds value to our Software.

❖ Implement enhancements:

- As users interact with our applications, they may notice things that we did not or suggest new features that they would like as part of the software, which could become future projects or enhancements.
- Perfective software maintenance takes over some of the work, both adding features that can enhance user experience and removing features that are not effective and functional.
- This can include features that are not used or those that do not help you to meet your end goals.

❖ Monitoring app using the tool sentry:

- We are going to use Sentry tool which is an error-tracking tool that helps monitor and fix errors in real time.
- Sentry is also going to provide us with "real-time insight into production deployments with info to reproduce and fix crashes". It is going to notify us of exceptions or errors that users run into while using our app, and organizes them for us on a web dashboard.

❖ Migrate legacy software.

- Based on the need, we are going to move our applications from an on-premises server to the cloud.

Needs :

- Difficulties faced by onboarding new users due to the outdated software.
- When users Struggle to access information when and where they need it

- Tracking and upgrading underlying server software is time-consuming and often requires business downtime. Cloud services & applications are continually improved, updated and expanded based on customer feedback and experimentation.

❖ Retire software :

- We are going to retire the software if Old Technology Is Compromising our Security.
- If It's More Cost Effective to Use Newer Technology then we will retire the old software.
- If our Younger Workforce Wants/Suggests Better UX, then we will take appropriate decision to retire the software.

❖ Backing up our data:

- We are going to create a copy of data that can be recovered in the event of a primary data failure.

- Primary data failures can be the result of hardware or software failure, data corruption, or a human-caused event, such as a malicious attack (virus or malware), or accidental deletion of data.
- Backup copies allow data to be restored from an earlier point in time to help the business recover from an unplanned event.

❖ Security Updates:

- We are going to install security updates to protect our systems from malicious attacks.
- During the maintenance phase, it is also important to install software updates, not only to access new features, but also to be on the safe side in terms of security loop holes being discovered in outdated programs.