Trainee Selection System	**Software Requirement Specification**
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Revision History

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Contents

1. Introduction

The Trainee Selection System (TSS) is a web-based application that automates and streamlines the process of selecting trainees for job positions. The TSS allows applicants to register, apply for job circulars, and participate in the selection process. It offers features such as applicant registration, job application, applicant approval, admits card generation, participant tracking, mark upload, an internal mailing system, an applicant dashboard, a notice board, result preparation, and final trainee selection. Admin can manage applicant data, review and approve applicants, generate admit cards, track exam participants, upload marks, and communicate with applicants through the system. The SRS covers both functional and non-functional requirements, ensuring that the system meets usability, security, performance, and reliability standards. The document serves as a guide for the development and implementation of the TSS, providing stakeholders with a clear understanding of the system's scope, features, and constraints.

1.1 Purpose

The purpose of the TSS is to provide a concise and clear overview of the TSS and the document's objectives. It highlights the key goals of the TSS, such as automating and simplifying the trainee selection process, reducing manual effort, improving efficiency, and ensuring a fair and transparent selection process. Additionally, it emphasizes that the document outlines the requirements for the TSS module/services, including functionalities, constraints, and user interactions.

1.2 Scope

The scope of the Trainee Selection System (TSS) module/services is designed to facilitate the selection and management of trainee applicants for job positions. It includes features such as applicant registration, job application, applicant approval, admit card generation, participant tracking, mark upload, internal mailing system, applicant dashboard, notice board, result preparation, and final trainee selection. The Software Requirement Specification (SRS) document specifies the project's expectations and needs and will establish the web's exact scope.

1.3 Intended Stakeholder

The BJIT Academy is the main Stack Holder of the project.

1.4 References

Reference	Location
Requirement Specification	

1.5 Definitions, Acronyms, and Abbreviations

Term/Acronym	Definition
APP	Abbreviation of Application
API	Application Programming Interface
SRS	Software Requirement Specification
TSS	The Service Module Name

2. Overall Description

The Trainee Selection System (TSS) module/services aim to streamline the selection and management of trainee applicants for job positions. The system provides a range of features including applicant registration, job application, applicant approval, admit card generation, participant tracking, mark upload, internal mailing system, applicant dashboard, notice board, result preparation, and final trainee selection. Applicants can register and apply for job circulars, while administrators can review applicant information and mark them as approved for specific job circulars. The system automates the generation of unique admit cards and tracks participants using unique codes. Evaluators can upload marks for different assessment criteria, and an internal mailing system facilitates communication with applicants. The system also provides an applicant dashboard and notice board for updates and notifications. Administrators can prepare results and make the final selection of trainees. The TSS module/services aim to automate and simplify the trainee selection process, reducing manual effort, improving efficiency, and ensuring a fair and transparent process. By providing these functionalities, the system enhances communication, facilitates data management, and supports the overall selection process for organizations.

2.1 Overview

The Trainee Selection System (TSS) is a comprehensive web-based application that streamlines the process of selecting trainee applicants for job positions within an organization. It offers a range of features and functionalities to facilitate an efficient and effective selection process.

At its core, the TSS provides a user-friendly interface for applicants to register and create profiles. They can input their personal and educational information, upload relevant documents such as CVs or resumes, and indicate their preferences for job positions.

Once registered, applicants can access a diverse range of job circulars within the system. They can browse the available positions, view detailed descriptions, and submit their applications for the desired job roles. The TSS allows for easy application status tracking, ensuring applicants are informed of any updates or progress throughout the selection process.

Administrators play a crucial role in managing the selection process through the TSS. They can review applicant profiles, assess their qualifications, and make informed decisions based on predefined criteria. The system supports efficient applicant approval, marking candidates as “APPROVED FOR INTERVIEW” for specific job circulars.

The TSS automates the generation of unique admit cards for selected applicants, incorporating features like serial numbers, barcodes, and QR codes for identification purposes. It also enables administrators to track participants during the written exam by assigning and storing unique codes on answer sheets.

Evaluators can upload marks for different categories, such as technical viva and HR viva rounds, ensuring a standardized evaluation process. The TSS facilitates seamless communication between evaluators and administrators through an integrated mailing system, enabling timely updates and notifications to be sent to applicants.

Applicants benefit from a personalized dashboard and notice board within the TSS. They can access important notifications, interview schedules, and exam results, ensuring transparency and keeping them engaged throughout the selection process.

The TSS ultimately aims to improve the trainee selection process's efficiency, fairness, and transparency. By automating tasks, facilitating communication, and providing a user-friendly interfaces, the TSS simplifies the overall process for both applicants and administrators, ensuring that the most suitable trainees are selected for job positions within the organization.

2.2 Technical platforms

The Trainee Selection System (TSS) will be developed using the following technical platforms and tools:

1. Frontend Development:

    JavaScript Library: React.js

    Code Editor: Visual Studio Code

2. Backend Development:

    Programming Language: Java

    Framework: Spring Boot

    IDE: IntelliJ IDEA

3. Database Management:

    Database: MySQL

    Database Management Tool: MySQL Workbench

4. API Testing:

    API Testing Tool: Postman

    Unit Testing Framework: Mockito

5. Deployment and Hosting:

    Web Server: Apache Tomcat (embedded with Spring Boot)

    Cloud Platform: Deployment on a cloud service provider (Amazon Web Services) or on-premises hosting.

6. Version Control:

    Version Control System: Git (GitHub)

7. Other Tools:

    Browser: Any modern web browser (Google Chrome, Microsoft Edge, Mozilla Firefox, etc.)

    Project Management: Agile/Scrum methodology, Redmine, Trello, or similar tools

The chosen technology stack provides a robust and widely adopted framework for web application development. Java with Spring Boot offers a scalable and secure backend infrastructure, while React.js

provides a flexible and interactive frontend user interface. MySQL serves as the relational database management system to store and manage data. Development and testing can be performed using IntelliJ IDEA, Visual Studio Code, and Postman for API testing. Mockito, a popular Java testing framework, can be utilized for unit testing to mock dependencies and verify behavior. Deployment options include hosting the application on a cloud service provider's server or on an on-premises server. Version control with Git enables efficient collaboration and code management. The project management tools facilitate agile development practices for efficient project tracking and team collaboration.

Functional Requirements

3.1 Overview

This section sums up in the below table the main functionalities or services provided by the sub-system, which will be detailed in the following subsections. A use case diagram could be also used to list the main functionalities.

Serial No	Main Features	Description
1	Login/ Registration	Users can register an account or log in using their credentials to access the system..
2	Apply for Desired Circular	Registered applicants can browse and apply for job circulars that are currently accepting applicants.
3	Applicant Approval	Administrators can review applicant information and mark them as "APPROVED FOR INTERVIEW" based on criteria such as job post, gender, degree name, educational institute, CGPA, and passing year. Approval is specific to each job circular.
4	Admit Card Generation	The system automatically generates unique admit cards for selected applicants, containing a serial number, barcode, and QR code for personal identification.
5	Track Participants of Exams	The system generates and stores unique codes for participants' answer sheets during the written exam, allowing for easy tracking and reference.
6	Upload Marks of Participants	Assigned evaluators can upload the marks for each candidate, categorized based on different assessment criteria. Evaluation categories will be defined separately.

7	Internal Mailing System	The system integrates a mailing service to send necessary emails to applicants, providing updates on application status, interview invitations, and exam results.
8	Applicant Dashboard, Notice Board	An application dashboard or notice board section is available for applicants to view notices and notifications related to their application status, interview results, etc.
9	Upload Marks and Prepare Results	BJIT administrators can upload marks for the technical viva and HR viva rounds, facilitating the preparation of results.
10	Select Final Trainees List	A dashboard or page allows BJIT admins to view and select the final candidates for a specific job circular. Candidates are sorted based on their scores, creating a rank list.

3.1.1 Login/ Registration

The Android cricket app's Login/Registration function is an essential component that enables users to access their individual information and preferences. Typically, the procedure consists of the following steps:

User registration: A user can create a new account by providing basic information such as their name, email address, and password.

Login: Once a user has created an account, they can log in using their email address and password.

Password recovery: If a user forgets their password, they can request a password reset via email.

User profile: After logging in, users can access their personal profile, which displays information such as saved teams and players, notification settings, and recent activity.

Logout: Users can log out of their account at any time by clicking the logout button in the web's menu.

Requirements

REQUIREMENT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_001	A user can create a new account by providing basic information such as their name, email address, and password.	Essential	Server might not be available	TC_001
TSS_002	A user can log in using their email address and password.	Essential	Server might not be available	TC_002
TSS_003	If a user forgets their password, they should be able to recover it.	The user may not be registered.	The user may not be registered.	TC_003
TSS_004	Users can log out of their accounts at any time by clicking the logout button in the app's menu.	Users should be able to successfully log out of their account	User may not be logged in.	TC_004

3.1.2 Apply For Desired Circular

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier

TSS_005	Registered applicants can browse and apply for job circulars that are currently accepting applicants.	Applicants should be able to successfully browse and view the available job circulars	None	TC_005
TSS_006	Applicants can apply for the desired circular by submitting their application.	Essential	None	TC_006
TSS_007	The system should validate the applicant's eligibility for the desired circular.	The system should verify that the applicant meets the necessary criteria for the desired job circular.	None	TC_007
TSS_008	Applicants should receive a confirmation of their application submission.	Essential	None	TC_008
TSS_009	The system should prevent multiple applications from the same applicant for the same circular.	Essential	None	TC_009

3.1.3 Applicant Approval

Requirements

REQUIREMENT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier

TSS_010	Members from the admin panel can view all applicant information.	Admin members should have access to view the information of all applicants.	None	TC_010
TSS_011	Administrators can sort applicant data based on specific criteria.	Administrators should be able to sort applicant data by job post, gender, degree name, educational institute, CGPA, and passing year.	None	TC_011
TSS_012	Administrators can mark applicants as "APPROVED FOR INTERVIEW"	Essential	None	TC_012
TSS_013	The approval status should be specific to each job circular.	Essential	None	TC_013

3.1.4 Admit Card Generation

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier

TSS_014	The system should automatically generate admit cards for selected applicants.	Essential	None	TC_014
TSS_015	Admit cards should contain the necessary personal details of the selected applicants.	Essential	None	TC_015
TSS_016	Each admit card should have a unique identifier.	Essential	None	TC_016
TSS_017	Admit cards should be generated in a printable format.	Essential	None	TC_017

3.1.5 Track Participants of Exams

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_018	The system should generate unique codes for participants' answer sheets	Essential	None	TC_018
TSS_019	The generated codes should be stored for future reference.	Essential	None	TC_019
TSS_020	The generated codes should be placed on the participants' answer sheets.	Essential	None	TC_020

3.1.6 Upload Marks of Participants

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_021	Assigned evaluators can upload marks for each candidate	Essential	None	TC_021
TSS_022	Marks should be uploaded based on different assessment criteria.	Essential	None	TC_022
TSS_023	Evaluators should have the option to review and modify uploaded marks.	Essential	None	TC_023

3.1.7 Internal Mailing System

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_024	The system should integrate a mailing service to send necessary emails to applicants	Essential	None	TC_024
TSS_025	Mails should be sent to inform applicants about their current application status.	Essential	None	TC_025

TSS_026	Mails should be sent to provide updates on interview invitations.	Essential	None	TC_026
TSS_027	Mails should be sent to communicate exam results to the applicants.	Essential	None	TC_027

3.1.8 Applicant Dashboard, Notice Board

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_028	There should be an application dashboard or notice board section.	Essential	None	TC_028
TSS_029	Applicants should be able to view notices and notifications.	Essential	None	TC_029
TSS_030	Notices should be displayed for events such as interview invitations, exam results, etc.	Essential	None	TC_030

3.1.9 Upload Marks and Prepare Results

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_031	BJIT admins can upload marks for the technical viva and HR viva rounds.	Essential	None	TC_031
TSS_032	Marks should be uploaded for each candidate based on the respective evaluation criteria.	Essential	None	TC_032
TSS_033	The system should calculate the final results based on the uploaded marks.	Essential	None	TC_033

3.1.10 Select Final Trainees List

Requirements

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_034	There should be a dashboard/page for BJIT admins to view the finally selected candidates.	Essential	None	TC_034
TSS_035	The dashboard/page should display the selected candidates in a rank list format.	Essential	None	TC_035

TSS_036	Candidates should be sorted according to their scores.	Essential	None	TC_036
TSS_037	BJIT admins should have the ability to select candidates for the final trainee list.	Essential	None	TC_037

4. User Interface

UI No.	UI Name	Related Function	Requirement ID	Description	Test case Identifier
TSS_UI_001	Home Screen			The main screen of the TSS displays relevant information such as upcoming job circulars, recent updates, and notices.	TC_038
TSS_UI_002	Registration Form	Applicants Registration		A user-friendly form for applicants to provide their information, including personal details and educational background.	TC_039
TSS_UI_003	Job Circular List	Apply for Desired Circular		A list of available job circulars where registered applicants can view and apply for their desired positions.	
TSS_UI_004	Applicant Details	Approval of Applicants		Applicants' data is shown on a screen so that hiring managers can analyze it and mark them as qualified for interviews.	TC_040

TSS_UI_005	Admit Card	Admit Card Generation		A generated admit card containing personal identification details and relevant information for selected applicants.	TC_042
TSS_UI_006	Exam Participant	Track Participants of Exams		A screen displaying a list of participants for exams, with their unique identification codes for easy tracking.	TC_043
TSS_UI_007	Mark Uploader	Upload Marks of Participants		A user interface for assigned evaluators to upload marks for each participant based on different assessment criteria.	TC_044
TSS_UI_008	Mailing System	Internal Mailing System		A platform to send necessary emails to applicants, providing updates on their application status and interview schedule	TC_045
TSS_UI_009	Applicant Dashboard	Applicant Dashboard		A dashboard or notice board section for applicants to view their application status, interview results, and notices.	TC_046
TSS_UI_010	Final Selection	Select Final Trainees List		A dashboard or page where administrators can view and select the final candidates for specific job circulars.	TC_047

5. Non-Functional Requirements

REQUIREMENT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
CricJass_038	The TSS should have a fast and responsive user interface with minimal latency.	A maximum response time of 5 seconds and an average response time of no more than 2 seconds are both acceptable.	To ensure optimal performance, it can be necessary to optimize the code and utilize effective techniques.	TC_048
TSS_039	The TSS should utilize proper encryption methods to provide user data security a top priority.	The system should implement secure login mechanisms to prevent unauthorized access.	For protection against new threats, it could be necessary to conduct recurring security audits and updates.	TC_049
TSS_040	The TSS interface ought to be simple to use, with straightforward controls and easy navigation.	All users, regardless of their age or skill level, should find the system simple to use.	To enhance the user experience, frequent user testing and feedback may be necessary.	TC_050

TSS_041	The TSS should be compatible with a range of popular Android devices.	The system should work seamlessly on a variety of Android devices.	To maintain compatibility, ongoing testing across many platforms and devices may be necessary.	TC_051

5.1 Performance Requirements

Response Time:

The average response time for user interactions should be less than 2 seconds.

The maximum response time for user interactions should not exceed 5 seconds.

Throughput:

The system should be capable of processing a minimum of 50 transactions (such as registrations, approvals, etc.) per second.

Capacity:

The system should support a minimum of 1,000 concurrent users accessing different functionalities simultaneously.

Network Degradation:

In the event of a degraded network connection, the system should gracefully handle the situation and provide offline access to essential information such as notices, notifications, and previously loaded data.

Resource Utilization:

Memory usage by the system should not exceed 500 MB to ensure efficient performance.

Disk utilization should be optimized to minimize storage consumption.

Network data consumption should be minimized by optimizing communication protocols and reducing unnecessary data transfers.

The system should be designed to minimize battery usage and prevent excessive heat generation on user devices.

Reliability:

The system should be available and accessible to users at least 99.5% of the time, minimizing downtime for maintenance or upgrades.

Error-handling capabilities should be implemented to handle system failures, ensuring stability and preventing data loss.

Security:

The system should employ strong encryption techniques to protect sensitive user data during transmission and storage.

Robust authentication mechanisms should be implemented to prevent unauthorized access to the system.

Scalability:

The system architecture should be scalable to accommodate an increasing number of users and job circulars without significant degradation in performance.

Future additions and enhancements should be easily integrated into the system's design without disrupting existing functionality.

Compatibility:

The system should be compatible with a wide range of devices and operating systems, ensuring seamless operation on various platforms.

The system's performance should not significantly impact the performance of user devices.

Support:

The system should provide user assistance in the form of documentation, FAQs, and a support channel for reporting issues and receiving timely resolutions.

Regular reviews and updates should be performed to maintain optimal performance and address any potential problems.

These performance requirements aim to ensure that the Trainee Selection System performs efficiently, provides a reliable and secure user experience, and can accommodate future growth and changes.

5.2 Safety Requirements

REQUIREMENT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier

TSS_042	The TSS should put users' safety first and should not put them in danger or harm's way.	The system should undergo regular user testing and feedback to ensure safety.	This may require implementing safety measures and guidelines to protect users.	TC_052
TSS_043	The TSS shall guarantee the confidentiality and security of user data, including login passwords and personal information.	The system should regularly undergo security audits and updates to ensure data safety.	It could be necessary to incorporate encryption methods and safe authentication procedures.	TC_053
TSS_044	The tools or equipment being utilized to access the system shouldn't sustain any harm from the TSS.	The system should undergo regular testing and compatibility checks to ensure equipment safety.	Taking safety precautions and hardware compatibility into account may be necessary.	TC_054

5.3 Security Requirements

To prevent unauthorized or malicious access, use, modification, destruction, or disclosure of software, the following security measures may be implemented:

The Trainee Selection System (TSS) incorporates various security measures to safeguard sensitive data, ensure secure access, and maintain the confidentiality and integrity of information. Here are the key Security Requirements:

User Authentication: The TSS enforces a robust login system, requiring users to provide valid credentials for secure access. Strong password policies and secure authentication mechanisms are implemented to protect against unauthorized access.

Access Control: Access control mechanisms are in place to restrict user privileges based on roles and responsibilities. This ensures that only authorized individuals can access sensitive data and perform specific actions within the system.

Data Protection: Sensitive data, such as personal information and academic records, is safeguarded through encryption techniques. Strong encryption algorithms are used to maintain data confidentiality and integrity, protecting it from unauthorized disclosure or modification.

Secure Communication: The TSS employs secure communication protocols, such as SSL/TLS, to encrypt data transmission between users and the system. This prevents eavesdropping and tampering, ensuring the privacy of information during transit.

Audit and Logging: Robust auditing and logging mechanisms track user activities, system events, and access attempts. This allows for monitoring, detection of suspicious behavior, and accountability in case of security incidents.

Regular Security Updates: The TSS undergoes regular security audits and updates to address vulnerabilities and mitigate emerging threats. This ensures that the system remains up-to-date with the latest security patches and enhancements.

Privacy Protection: The TSS complies with data privacy regulations and incorporates privacy protection measures. Data anonymization, consent management, and secure data storage are implemented to safeguard the privacy of applicants' personal information.

Incident Response: The TSS has an incident response plan in place to handle security incidents effectively. This includes procedures for detecting, reporting, responding to, and recovering from security breaches, ensuring a swift and appropriate response.

User Awareness and Training: User awareness programs and training sessions are conducted to educate users about security best practices. This empowers them to create strong passwords, recognize phishing attempts, and protect their personal information.

Physical Security: Physical security measures are implemented to protect the infrastructure and data centers where the TSS is hosted. Restricted access, video surveillance, and environmental controls ensure the physical safety of the system's components.

By adhering to these Security Requirements, the Trainee Selection System (TSS) maintains a high level of security, safeguarding sensitive information, and ensuring a trusted and secure environment for all users.

REQUIREMENTS ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_045	The TSS needs to apply the right encryption methods to safeguard user data, such as passwords and personal data.	Essential	This may require implementing strong encryption algorithms and security protocols.	TC_055
TSS_046	In order to guard against unwanted access to user accounts, the TSS needs to have a secure login process.	Essential	This may require implementing secure authentication mechanisms and password policies.	TC_056
TSS_047	To make sure that essential data hasn't been altered or tampered with, the TSS should validate its integrity.	Essential	It can be necessary to implement data integrity checks and use hashing methods for validation.	TC_057
tSS_048	The TSS must have systems in place to identify possible security risks, such as malware or unauthorized access attempts, and take appropriate action.	Essential	It could be necessary to put in place intrusion detection systems and security monitoring tools.	TC_058

6. Design Constraints

Design Constraints for Trainee Selection System (TSS):

Technology Compatibility: The TSS should be compatible with the organization's existing technology infrastructure, including hardware, software, and network systems. The design should consider compatibility with web browsers, operating systems, and database management systems to ensure smooth integration and functionality.

Scalability: The TSS should be designed to handle a growing number of users, job circulars, and applicant data without compromising performance. The design should accommodate future expansion and increasing demands on the system, allowing for scalability and efficient resource utilization.

Security and Data Protection: The TSS should incorporate robust security measures to protect sensitive applicant information and ensure data privacy. The design should include encryption techniques, access controls, secure authentication mechanisms, and regular security audits to mitigate the risk of unauthorized access or data breaches.

Compliance with Regulations: The TSS should adhere to relevant laws, regulations, and industry standards pertaining to data protection, privacy, and employment practices. The design should consider compliance requirements such as GDPR, EEOC guidelines, and local labor laws to ensure legal and ethical practices in the trainee selection process.

User Experience and Usability: The TSS should provide a user-friendly interface and intuitive navigation to enhance user experience. The design should prioritize ease of use, clear instructions, and efficient workflows to ensure applicants and administrators can interact with the system effectively and efficiently.

Integration with External Systems: The TSS may need to integrate with other systems or platforms, such as HR management software, applicant tracking systems, or background verification services. The design should consider seamless integration through defined interfaces, data exchange formats, and APIs to enable smooth data flow and interoperability.

Performance Optimization: The TSS should be designed for optimal performance to minimize response times and ensure smooth operation even during peak usage periods. The design should include efficient database query optimization, caching mechanisms, and code optimization techniques to enhance system performance.

Accessibility: The TSS should be accessible to users with disabilities, complying with accessibility standards and guidelines. The design should consider features such as screen reader compatibility, keyboard navigation, and visual contrast options to ensure inclusivity and accessibility for all users.

System Availability and Reliability: The TSS should be designed for high availability and reliability, minimizing downtime and ensuring continuous system operation. The design should incorporate redundancy measures, backup strategies, and disaster recovery plans to mitigate the impact of system failures or disruptions.

Budget and Time Constraints: The design of the TSS should consider budgetary and time constraints. It should align with available resources, cost limitations, and project timelines to ensure efficient development, implementation, and maintenance of the system within the specified constraints.

These design constraints guide the development and implementation of the Trainee Selection System, ensuring compatibility, scalability, security, compliance, user experience, integration capabilities, performance optimization, accessibility, availability, and adherence to budget and time constraints.

7. Software Quality Attributes

REQUIREMENT ID	Requirement Description	Acceptability/ Completion Criteria	Limitations/ Constraints	Test case Identifier
TSS_049	The TSS needs to be simple to use and intuitive.	Essential	None	TC_059
TSS_050	The TSS should have a fast and responsive interface.	Essential	For best results, optimization might be needed.	TC_041
TSS_051	The TSS ought to be able to handle rising user demands.	Essential	May require scalability improvements for future growth.	TC_042
TSS_052	The TSS should have minimal downtime and errors.	Essential	May require regular testing and reliability improvements to ensure reliability	TC_043
TSS_053	The TSS should protect user data and prevent breaches.	Essential	May require regular security audits and updates.	TC_044
TSS_054	The TSS should be easy to maintain and update.	Essential	May require periodic code reviews and updates.	TC_045

TSS_055	The TSS should work on different platforms/devices.	Essential	May require testing and compatibility checks.	TC_046
TSS_056	The TSS must adhere to all pertinent laws and regulations.	Essential	May require regular compliance assessments.	TC_047
TSS_057	The TSS should guarantee data accuracy.	Essential	For data integrity, error handling could be necessary.	TC_048
TSS_058	Errors should be gently handled by the TSS.	Essential	A thorough error-handling system might be needed.	TC_049