

Fully-Dressed Use Cases

| <i>Use Case Section</i> | <i>Comment</i> |
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| Use Case Name | Purchasing a ticket |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to purchase a ticket - College of Charleston: wants to receive money from the transaction and ensure an accurate inventory of tickets |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - The user has found whatever play being searched for and proceeded to checkout - There exists some ticket in the inventory that is able to be purchased |
| Success Guarantee | <ul style="list-style-type: none"> - Transaction is recorded and performed accurately - The ticket is provided to the user without issue - Receipt is also created and distributed to the reader - Ticket inventory is updated accordingly |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user enters in their payment information 2. The user confirms the purchase |

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| | <ul style="list-style-type: none"> 3. The transaction completes successfully and the ticket is digitally sent to the user 4. The system updates the ticket inventory to account for the purchased ticket |
| Extensions | <ul style="list-style-type: none"> 2a. The user attempts to purchase a ticket but there are no tickets available <ul style="list-style-type: none"> 1. A warning will be displayed to the User that no tickets remain for this event 2. They will be notified of any similar events on other days that have available tickets 3a. The transaction fails to complete <ul style="list-style-type: none"> 1. An error will be displayed to the user and an admin will be alerted to the failure 2. The ticket that was attempted to be purchased will be held in reserve for 24 hours or until an admin can resolve the error and allow the user to purchase the desired ticket 3b. The ticket is never sent <ul style="list-style-type: none"> 1. An error message will be sent to both the User and an admin 2. The system will allow the user to choose between receiving a full refund or waiting until an admin is able to resolve the issue and send them a ticket 4a. The ticket inventory is not updated/updated incorrectly <ul style="list-style-type: none"> 1. The system will attempt to check |

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| | <p>for discrepancies in ticket inventory and alert an admin</p> <ol style="list-style-type: none"> 2. An admin with appropriate authority will enter the database manually and correct the ticket amounts 3. The system will be reviewed to figure out what caused the discrepancy and how to fix it |
| Special Requirements | <ul style="list-style-type: none"> - Java - Compatibility with different payment methods |
| Technology and Data Variations List | <p>3a. Payment system that can interface with different payment providers and securely complete transactions</p> <p>4a. Database that can store ticket information</p> |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - Should users be allowed to store payment information on their account so that it can be autofilled in the checkout screen? |

| <i>Use Case Section</i> | <i>Comment</i> |
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| Use Case Name | Log in |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |

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| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to log into their account |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - The user already possesses a valid account |
| Success Guarantee | <ul style="list-style-type: none"> - The User enters their login information accurately - The system successfully validates the login information and grants the user access to their account |
| Main Success Scenario | <ol style="list-style-type: none"> 1. User navigates to the login button 2. On the login screen, the user enters their username and password 3. The system checks the username and password and recognizes them as valid 4. The user is granted access to their account |
| Extensions | <p>2a. The user attempts to login with incorrect login information</p> <ol style="list-style-type: none"> 1. An error is reported to the user 2. The user is allowed to try and input their login information up to 5 times 3. If 5 attempts are exceeded, the user will be directed to reset their login information <p>3a. The system fails to recognize the username and password as valid (even though they are)</p> <ol style="list-style-type: none"> 1. An error is reported to the user |

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| | <p>2. The user will be prompted to re-enter their login information</p> <p>3. If the error persists, the user will be directed to reset their login information or submit a bug report to the system</p> <p>4a. The user is not granted access to their account</p> <ol style="list-style-type: none"> 1. The system will log the error and direct the user to try and login again 2. Repeated failed attempts will signal the System to contact the Administrators about the error |
| Special Requirements | - Java |
| Technology and Data Variations List | 2a. A database that can be used to store and verify login information |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - Will login need to use the same two-factor authentication as creating an account? |

| <i>Use Case Section</i> | <i>Comment</i> |
|-----------------------------------|--------------------------------------------------------------------------------------|
| Use Case Name | Creating an account |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to create an account |

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| | <ul style="list-style-type: none"> - to use this software - College of Charleston: wants to track the number of people using this software |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - There is space in the database to store the login information of another account |
| Success Guarantee | <ul style="list-style-type: none"> - A new account is successfully created |
| Main Success Scenario | <ol style="list-style-type: none"> 1. User navigates to the “Create Account” button 2. User enters a valid username and password that has at least one Uppercase, one lowercase, a number, special character, and a minimum of 10 characters 3. The user will be prompted to verify their identity through a 3rd-party authenticator 4. The system creates a new account and automatically logs the user into it |
| Extensions | <p>2a. The user enters an invalid username or password</p> <ol style="list-style-type: none"> 1. The user will be informed that their username/password is invalid and prompted to enter a new one <p>3a. Two-factor authentication fails to validate the identity of the user</p> <ol style="list-style-type: none"> 1. The system will display an error to the user 2. The user will be prompted to |

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| | <p>reattempt two-factor authentication</p> <p>4a. The system fails to create a new account</p> <ol style="list-style-type: none"> 1. An error will be reported to the user and to the System Administrators 2. The user will be directed to try creating another account |
| Special Requirements | <ul style="list-style-type: none"> - Java - Two-Factor Authentication |
| Technology and Data Variations List | <p>2a. A password verifier that will ensure all password meet the minimum password requirements</p> <p>3a. A 3rd-party authenticator app that can be used for two-factor authentication</p> <p>4a. Database that can store account information for users</p> |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - What application should be used to facilitate two-factor authentication? |

| <i>Use Case Section</i> | <i>Comment</i> |
|-------------------------|----------------------------------------------------|
| Use Case Name | Search for a play |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |

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| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to find a specific play - College of Charleston: wants to sell tickets for that specific play |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - There exists some play in the System that the user wants to find |
| Success Guarantee | <ul style="list-style-type: none"> - The user's desired play is successfully found |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the search bar 2. The user searches for the desired play using some criteria (i.e. name, date, etc.) 3. The system returns the correct play that the user desired |
| Extensions | <p>3a. The system fails to return the correct play that the user desired</p> <ol style="list-style-type: none"> 1. The system will report to the user that 0 results were found for their query 2. The user will be prompted to attempt a new query or else search for a new play entirely |
| Special Requirements | <ul style="list-style-type: none"> - Java |
| Technology and Data Variations List | <p>1a. A search bar where the user can enter in some criteria and have the database return all plays matching that criteria</p> |
| Frequency of Occurrence | Almost continuously |

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| Miscellaneous | <ul style="list-style-type: none"> - How should the returned plays be sorted and displayed to the user? - How many plays should be displayed to the user at once? |
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| <i>Use Case Section</i> | <i>Comment</i> |
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| Use Case Name | Sorting Plays |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to sort existing plays based on some criteria (i.e. alphabetically, chronologically, etc.) |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - Existing plays are able to be sorted |
| Success Guarantee | <ul style="list-style-type: none"> - Existing plays are sorted based on User criteria - The sorted plays are displayed to the user |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user selects “Advanced Filter” 2. The user chooses an option to sort by (Alphabetical, Chronological, within a certain period of time) 3. The plays are sorted and |

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| | displayed to the user |
| Extensions | <p>3a. The plays are sorted incorrectly</p> <ol style="list-style-type: none"> 1. The user will have the ability to submit a bug report indicating that the sorting feature is incorrect |
| Special Requirements | <ul style="list-style-type: none"> - Java - A Sorting Algorithm |
| Technology and Data Variations List | <p>2a. A sorting algorithm that can efficiently and accurately sort the events in the database and then display them to the user</p> |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - What specific sorting algorithm should be used? - Would different sorting algorithms be needed based on what criteria the user wishes to sort by? |

| <i>Use Case Section</i> | <i>Comment</i> |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Use Case Name | Selecting Seats |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to select a specific seat or seats for their chosen play |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally |

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| | <ul style="list-style-type: none"> - There exists some seats available to be chosen by the user - The user has already selected a play |
| Success Guarantee | <ul style="list-style-type: none"> - The system accurately records the seat(s) chosen by the user |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the seat selection screen before they purchase their ticket 2. The user selects a vacant seat or seats that they wish to reserve 3. The user confirms their selection and proceeds to checkout |
| Extensions | <p>2a. The user selects a non-vacant seat</p> <ol style="list-style-type: none"> 1. The user will be notified that the seat that have selected is already reserved 2. They will be directed to select another seat |
| Special Requirements | <ul style="list-style-type: none"> - Java - Seat selection screen |
| Technology and Data Variations List | <p>1a. A separate screen where users can see a map of the auditorium as well as what seats are available and which are already reserved before clicking whichever seat they would like to reserve</p> <p>3a. A checkout page where the user can finalize their purchase after selecting a seat</p> |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - What colors should be used to represent seats that are reserved |

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| | <p>versus those that are still available?</p> <ul style="list-style-type: none"> - When purchasing a ticket, should the user always be taken to the Seat Selection Screen, or only if they choose to specify a seat? |
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| <i>Use Case Section</i> | <i>Comment</i> |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use Case Name | Logging out |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to log out of their account |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - The user already has a valid account - The user is already logged into their account |
| Success Guarantee | <ul style="list-style-type: none"> - The user is successfully logged out |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the “settings” option 2. The user selects the “log out” option 3. The user confirms their selection and is logged out |
| Extensions | 3a. The user confirms their selection |

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| | <p>but, is not logged out</p> <ol style="list-style-type: none"> 1. The system will display an error to the user 2. The user will be prompted to attempt logging out again 3. The user will be given the option to submit a bug report to the Administrators |
| Special Requirements | <ul style="list-style-type: none"> - Java - Settings screen - Log out functionality |
| Technology and Data Variations List | 1a. A page containing various miscellaneous settings for the user |
| Frequency of Occurrence | Almost continuously |
| Miscellaneous | <ul style="list-style-type: none"> - Will the “Log Out” button only be available within the settings page? |

| <i>Use Case Section</i> | <i>Comment</i> |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use Case Name | Deleting account |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to delete their account |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - The user has already registered a valid account with the system |

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| Success Guarantee | <ul style="list-style-type: none"> - The user's account is successfully deleted and removed from the system database |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the "settings" option 2. The user selects "Delete Account" 3. The user re-enters their login information to confirm their identity 4. The user confirms their decision 5. The account is deleted and removed from the database |
| Extensions | <p>3a. The user attempts to login with incorrect login information</p> <ol style="list-style-type: none"> 1. An error is reported to the user 2. The user is allowed to try and input their login information up to 5 times 3. If 5 attempts are exceeded, the user will be directed to reset their login information <p>5a. The account is not deleted and/or removed from the database</p> <ol style="list-style-type: none"> 1. An error will be reported to the system administrators 2. An admin will need to enter the database and manually correct the error |
| Special Requirements | <ul style="list-style-type: none"> - Java - Account deletion functionality |
| Technology and Data Variations List | <p>1a. A page containing various miscellaneous settings for the user</p> |

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| | 5a. A database which stores account information that can be edited to remove deleted accounts |
| Frequency of Occurrence | infrequently |
| Miscellaneous | <ul style="list-style-type: none"> - Should the user be required to complete two-factor authentication as well before they can delete their account? |

| <i>Use Case Section</i> | <i>Comment</i> |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use Case Name | Submit a bug report |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to submit a bug report to the System Administrators - College of Charleston: wants to be made aware of any issues to fix them as soon as possible |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - The user has some error that they wish to report |
| Success Guarantee | <ul style="list-style-type: none"> - The user successfully writes a bug report - The report is successfully logged and sent to the system administrators |

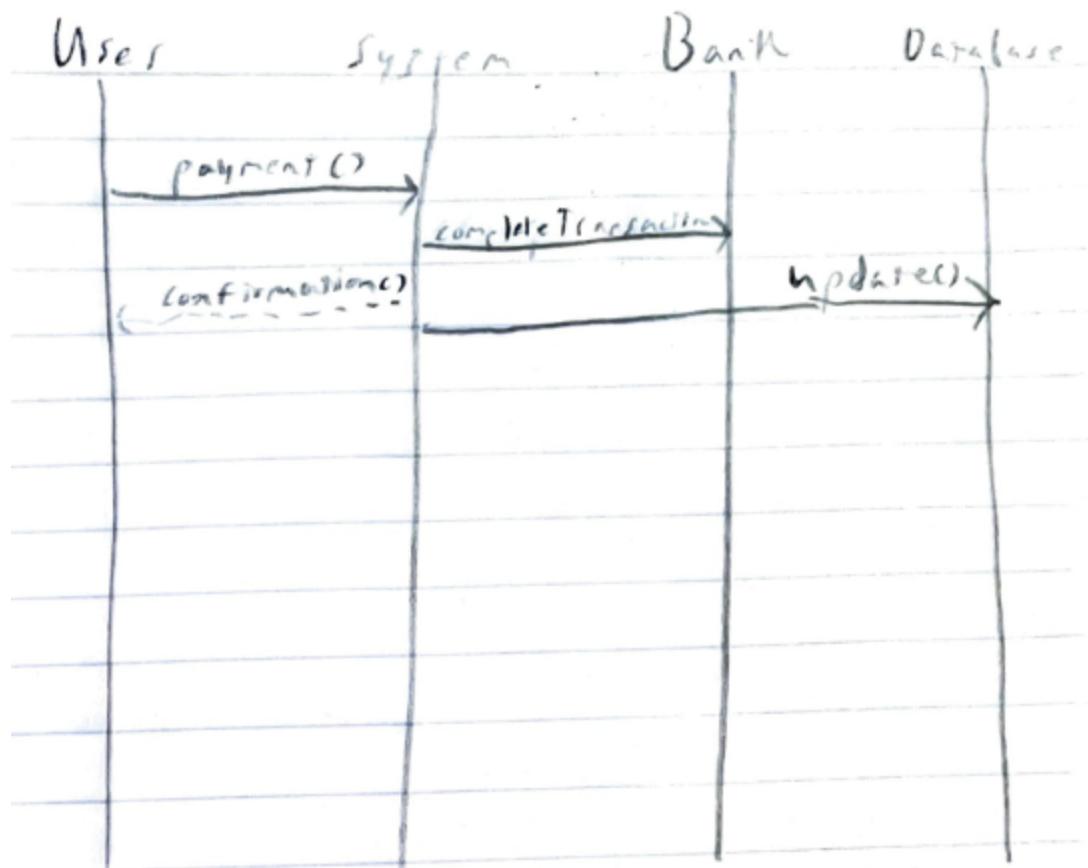
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| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the “Contact Us” section and opts to submit a bug report 2. The user is prompted to write a report with a maximum of 500 words, describing the error 3. The report is logged by the system and sent to the System Administrators |
| Extensions | <ol style="list-style-type: none"> 2a. The user attempts to write a report longer than 500 words <ol style="list-style-type: none"> 1. The user will be notified that their report is too long 2. The user will be advised to try and explain their error in more concise detail 3a. The report is not logged or sent to the System Administrators <ol style="list-style-type: none"> 1. An error will be reported to the user 2. The report will attempt to be resent |
| Special Requirements | <ul style="list-style-type: none"> - Java - Bug reporting functionality |
| Technology and Data Variations List | <ol style="list-style-type: none"> 1a. A page containing various miscellaneous settings for the user 2a. A Bug Reporting feature that would allow the user to write and submit a report of an error 3a. Database that can store these reports to be fixed by the System Administrators |
| Frequency of Occurrence | Rarely |

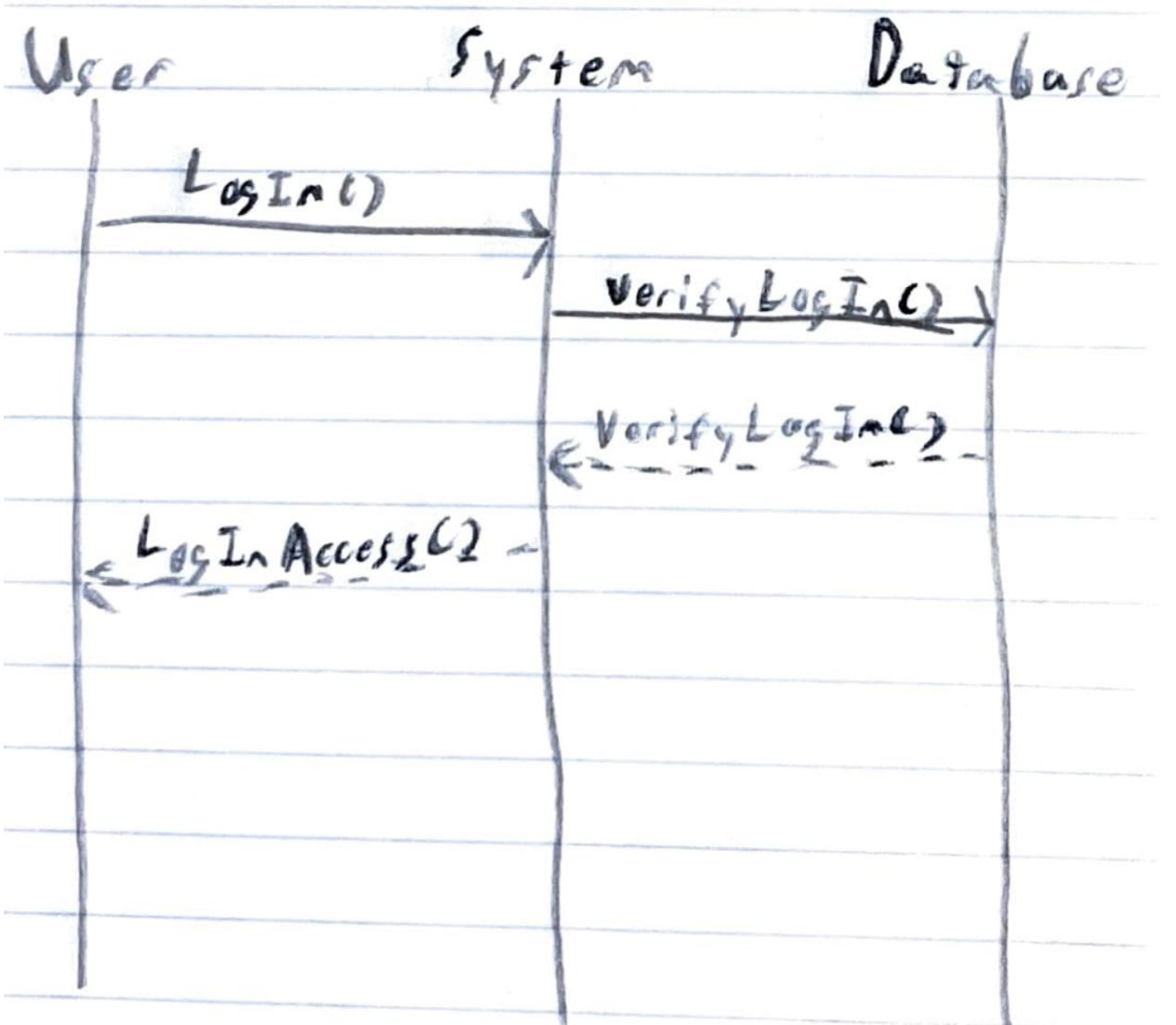
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| Miscellaneous | <ul style="list-style-type: none"> - Should the maximum word count be altered? - Would the “Contact Us” feature only be found under settings? |
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| <i>Use Case Section</i> | <i>Comment</i> |
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| Use Case Name | Selects a calendar event |
| Scope | Java-lagged team designed event ticketing software |
| Level | User Goal |
| Primary Actor | User |
| Stakeholders and Interests | <ul style="list-style-type: none"> - User: wants to use the interactive calendar to select an event |
| Preconditions | <ul style="list-style-type: none"> - The ticketing software is running and executing normally - There exists some events on the interactive calendar that can be selected |
| Success Guarantee | <ul style="list-style-type: none"> - The user selects an event on the interactive calendar - The user is given information on the selected event |
| Main Success Scenario | <ol style="list-style-type: none"> 1. The user navigates to the event calendar 2. The user selects an event on the calendar 3. The user is taken to the description page for that event |
| Extensions | 2a. The user is unable to select an event in the calendar |

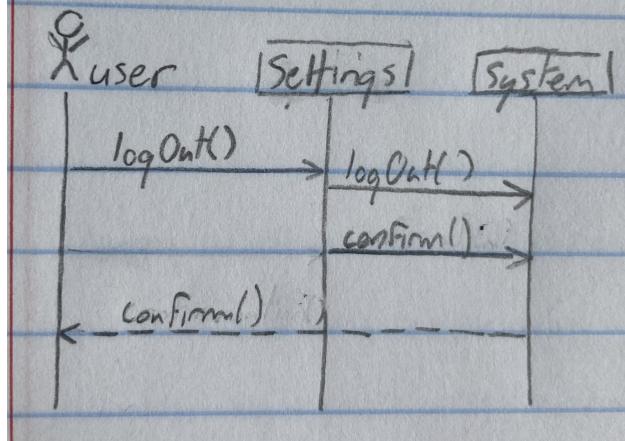
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| | <ol style="list-style-type: none"> 1. The user will have the ability to submit a bug report about this issue 2. The System Administrators will be notified of the error and rectify it <p>3a. The user is not taken to the description page for the event</p> <ol style="list-style-type: none"> 1. An error will be reported to the user 2. The user will be prompted to try re-selecting the event or selecting a different event |
| Special Requirements | <ul style="list-style-type: none"> - Java - Interactive Calendar |
| Technology and Data Variations List | <p>2a. An interactive Calendar that displays events on a calendar depending on when they occur</p> <p>3a. An event description page that provides information about the page as well as an option to select seats and purchase a ticket</p> |
| Frequency of Occurrence | Often |
| Miscellaneous | <ul style="list-style-type: none"> - How many months in advance should the Calendar display events? |

System Sequence Diagrams

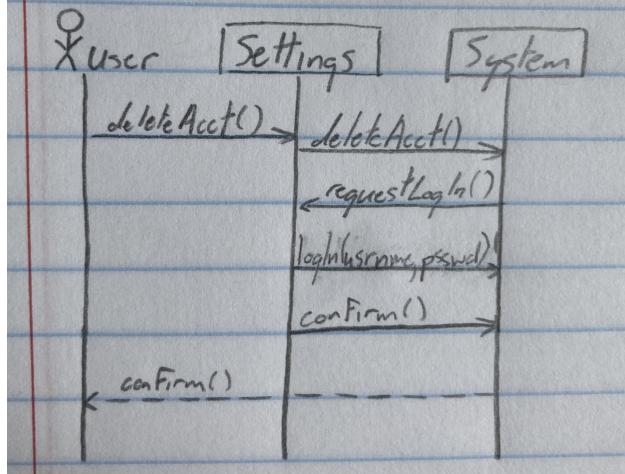




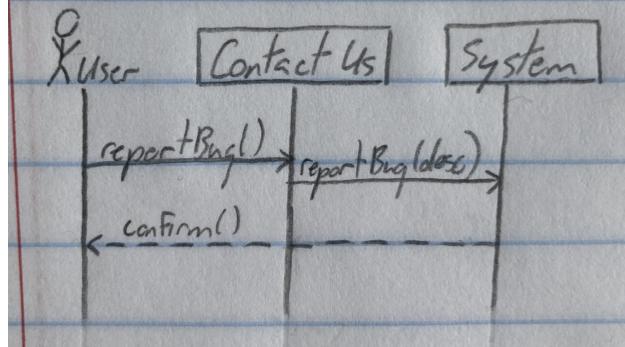
Logging out



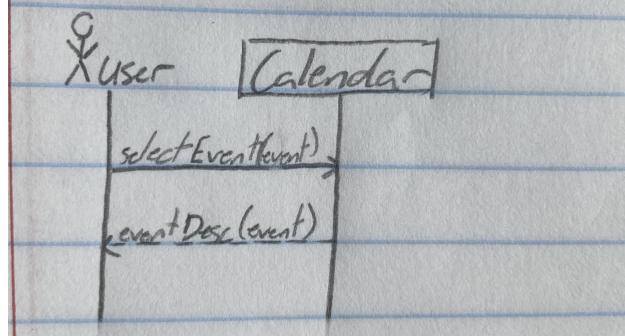
Deleting Account



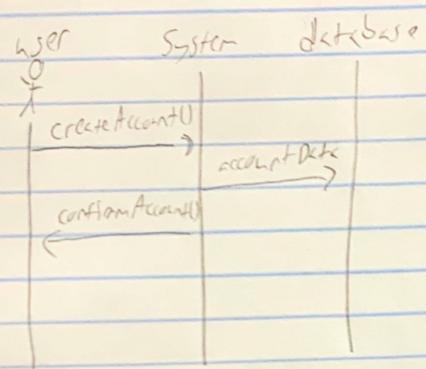
Submit Bug Report



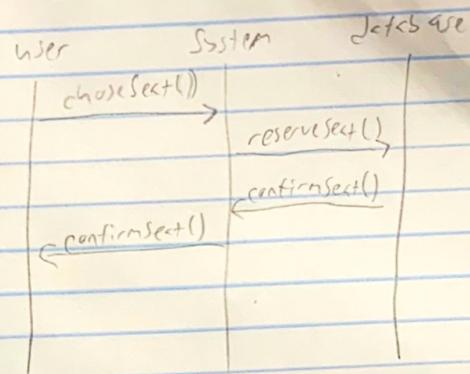
Calendar Event Selection



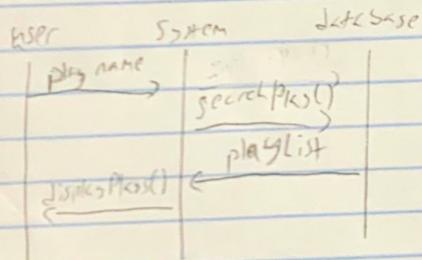
Create account



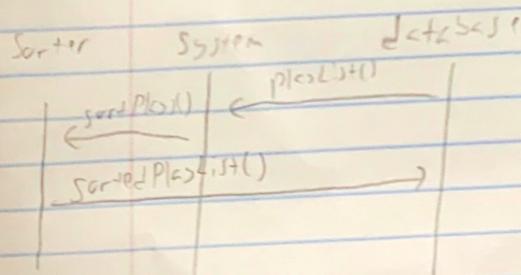
Selecting Seats



Search for < play



Sorting Plays



Operation Contracts

| <i>Purchasing a Ticket</i> | |
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| Operation | payment() |
| Cross References | Use Case: Purchasing a Ticket |
| Prerequisites | The user has selected some event that they wish to purchase a ticket for |
| Post Requisites | Payment information is entered and ready to be processed |

| <i>Purchasing a Ticket</i> | |
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| Operation | completeTransaction() |
| Cross References | Use Case: Purchasing a Ticket |
| Prerequisites | The user has confirmed their purchase |
| Post Requisites | The transaction is completed and recorded |

| <i>Purchasing a Ticket</i> | |
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| Operation | update() |
| Cross References | Use Case: Purchasing a Ticket |
| Prerequisites | The transaction has been completed and recorded |
| Post Requisites | The ticket inventory has been updated with the new number of tickets |

| <i>Purchasing a Ticket</i> | |
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| Operation | confirmation() |
| Cross References | Use Case: Purchasing a Ticket |
| Prerequisites | Payment is pending and ready to be processed |
| Post Requisites | Payment is either confirmed or denied by the user |

| <i>Logging In</i> | |
|-------------------------|---------------------------------------------------------------------|
| Operation | logIn() |
| Cross References | Use Case: Logging In |
| Prerequisites | User has a valid account and is not already logged in |
| Post Requisites | The user has entered login information and is awaiting verification |

| <i>Logging In</i> | |
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| Operation | verifyLogIn() |
| Cross References | Use Case: Logging In |
| Prerequisites | Login information has been input |
| Post Requisites | Login information is either confirmed or denied by the database |

| <i>Logging In</i> |
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| Operation | logInAccess() |
| Cross References | Use Case: Logging In |
| Prerequisites | Login information has been checked by the database |
| Post Requisites | Login access is either granted or denied to the user |

| <i>Logging Out</i> | |
|-------------------------|---------------------------|
| Operation | logOut() |
| Cross References | Use Case: Logging Out |
| Prerequisites | User is logged in |
| Post Requisites | User confirms information |

| <i>Logging Out</i> | |
|-------------------------|----------------------------------------------------------------------------------------------------------|
| Operation | confirm() |
| Cross References | Use Case: Logging Out |
| Prerequisites | <ul style="list-style-type: none"> - User is logged in - Logging out is underway |
| Post Requisites | User is logged out |

Deleting Account

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|-------------------------|----------------------------------------|
| Operation | deleteAcct() |
| Cross References | Use Case: Deleting Account |
| Prerequisites | User is logged in |
| Post Requisites | User is prompted for login information |

| <i>Deleting Account</i> | |
|-------------------------|---------------------------------------------------------------------------------------------------------------|
| Operation | requestLogIn() |
| Cross References | Use Case: Deleting Account |
| Prerequisites | <ul style="list-style-type: none"> - User is logged in - Deleting account is underway |
| Post Requisites | Prompts User for login information |

| <i>Deleting Account</i> | |
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| Operation | logIn(usrnme: String, psswd: String) |
| Cross References | Use Case: Deleting Account |
| Prerequisites | <ul style="list-style-type: none"> - User is logged in - Deleting account is underway |
| Post Requisites | User confirms information |

| <i>Deleting Account</i> | |
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| Operation | confirm() |
| Cross References | Use Case: Deleting Account |

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| Prerequisites | <ul style="list-style-type: none"> - User is logged in - Deleting account is underway |
| Post Requisites | <ul style="list-style-type: none"> - Account is removed from database - User is no longer logged in |

| <i>Submit a Bug Report</i> | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Operation | reportBug(desc: String) |
| Cross References | Use Case: Submit a Bug Report |
| Prerequisites | |
| Post Requisites | <ul style="list-style-type: none"> - Report is logged to the System - Report is sent to System Administrators |

| <i>Submit a Bug Report</i> | |
|----------------------------|------------------------------------|
| Operation | confirm() |
| Cross References | Use Case: Submit a Bug Report |
| Prerequisites | A bug was reported |
| Post Requisites | A confirmation message is returned |

| <i>Selects a Calendar Event</i> | |
|---------------------------------|---------------------------|
| Operation | selectEvent(event: Event) |

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|-------------------------|------------------------------------|
| Cross References | Use Case: Selects a Calendar Event |
| Prerequisites | Interactive event calendar is open |
| Post Requisites | Event selection is sent to system |

| <i>Selects a Calendar Event</i> | |
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| Operation | eventDesc() |
| Cross References | Use Case: Selects a Calendar Event |
| Prerequisites | - Interactive event calendar is open - User selects event |
| Post Requisites | Description page for event is opened |

| <i>Create Account</i> | |
|-------------------------|-------------------------------------------|
| Operation | createAccount() |
| Cross References | Use Case: Create Account |
| Prerequisites | An account can be created and stored in |
| Post Requisites | The transaction is completed and recorded |

| <i>Selecting Seats</i> | |
|-------------------------|----------------------------------------------------------------------|
| Operation | chooseSeats() |
| Cross References | Use Case: Selecting Seats |
| Prerequisites | The user has selected a play that they wish to purchase a ticket for |

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------|
| Post Requisites | A ticket for an available seat or seats that the user has selected is generated and the user is taken to checkouts |
|------------------------|--------------------------------------------------------------------------------------------------------------------|

| <i>Search for a Play</i> | |
|--------------------------|---------------------------------------------------------------------------------|
| Operation | searchPlay() |
| Cross References | Use Case: Search for a Play |
| Prerequisites | The user has navigated to the search bar and entered some criteria to search by |
| Post Requisites | Plays that match the criteria are displayed to the user |

| <i>Sorting Plays</i> | |
|-------------------------|------------------------------------------------------------|
| Operation | sortPlay() |
| Cross References | Use Case: Sorting Plays |
| Prerequisites | There exists some plays in the Database that can be sorted |
| Post Requisites | The sorted plays are displayed to the user |