

SOFTWARE REQUIREMENT SPESIFICATION



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MUSICAL INSTRUMENT RENTAL SYSTEM

1. Description of Project Background

Nowadays, we always hear music everytime, anywhere. People make their original song and new track coming out everyday. They even spend their money for some expensive musical instrument and stuff for their music. But, there are some people who can't buy their own instrument for some financial reason yet they are also willing to have those stuff. Or there are some organization that want to hold a concert or live band music but they don't have the instrument. Therefore, formed an idea to facilitate those who want to play music without having to buy it and be able to have it for a few moments.

2. Project Goals

The goal of this research is to provide web application software that will automate the booking process of the company and be able to store information in a single database.

3. Stakeholders

- i. Admin
- ii. Customer

4. Functional Requirements

- i. System should view all available rental instrument and connects with database to call all instrument and display them accordingly
- ii. User can search for desired musical instrument by brand, type and cost. A search bar will be implemented on the website that will search the site based on input.
- iii. System should be able to store equipment booking transaction, musical instrument details and specifically in managing all the records.
- iv. System should be able to print musical instrument booking and transaction record.
- v. System can view, add, edit and delete of all the system record.

5. Non-Functional Requirements

- i. User Friendliness
This system should be user-friendly because not all end users will be that much technically expert in using the system. This must be easy to manipulate so that each of them must be very comfortable to use.
- ii. Secure
Security is also important because it is to ensure the integrity of the system from malicious damage. The stakeholder accounts of musical instrument rental system are secured because it is protected by their own username and password.
- iii. Reliability

If it is unreliable, this will surely failed frequently that's why the system must be reliable so that the end users will avoid of having trouble in using the system and is capable to maintain its performance over time.

iv. Performance

Can be open in Chrome / firefox Less than 15 second.

6. Method used in requirement gathering

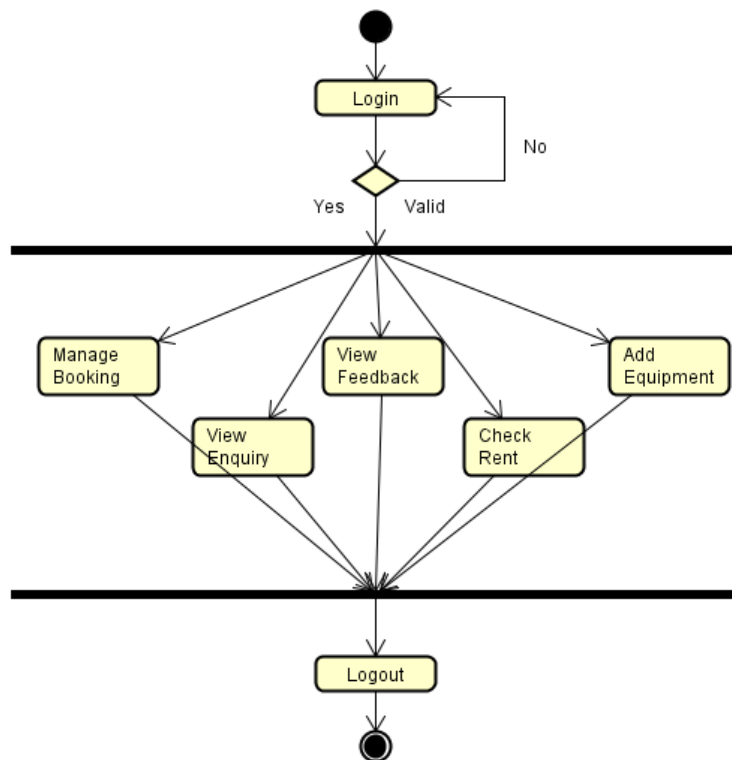
- i. Survey around UNS area, and then Surakarta region.
- ii. interviews UNS students, people around UNS, and then people in Surakarta.

7. Software Development Model

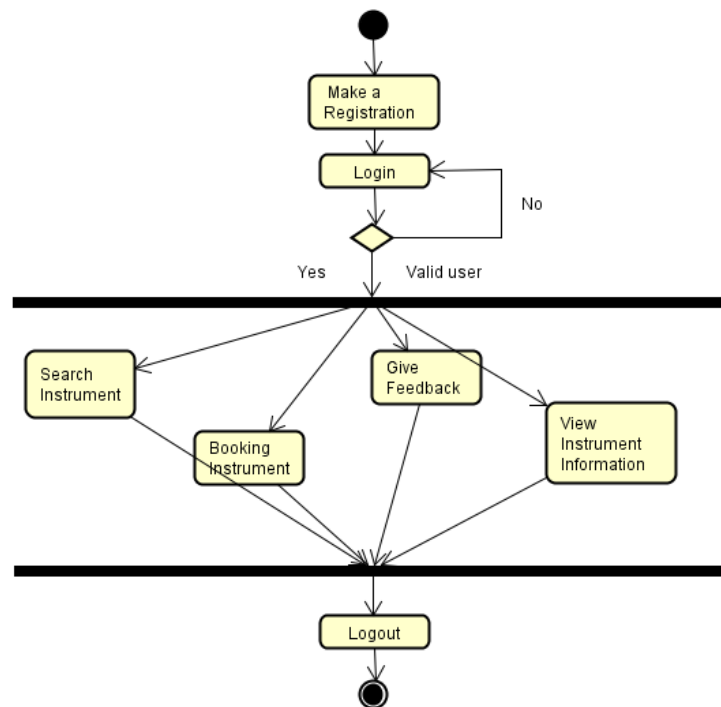
We use Agile model because there are function that may include after the program released, not release together, but step by step depends on circumstances.

8. Activity diagram

i. Admin

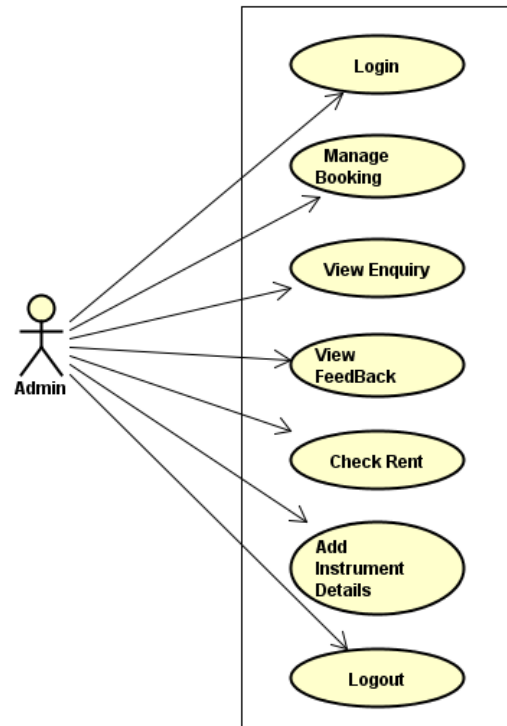


ii. Customers

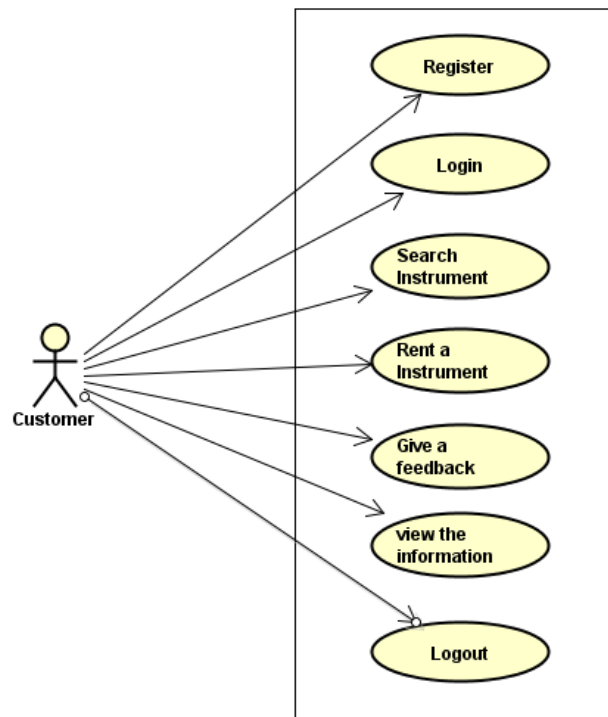


9. Use case Diagram

i. Use case Admin










ii. Use case customer



10. Use case description

- Customer have to registration first,
- Customer login to the system
- There is a search bar in the system
- Customer can search the instrument by the brand, type, or cost range.
- System presents the all instrument that related to the search
- Customer pick the instruments
- Customer rent it
- System show the full information of the instrument
- System show the transaction detail

11. Project Schedule and Effort Plan

Development Phase	0 – 15 Day	16 – 30 Day	31 – 45 Day	46 – 60 Day	61 – 75 Day	76 – 90 Day	Duration
Requirement Gathering							10
Analysis							15
Design							30
Coding							25
Testing							12
Implementation							08
Documentation							80
Total Days							90

12. REFERENCE

- <http://appska1.ums.edu.my/ssov2/spp/documentation/index.html>

- [http://www.cems.uwe.ac.uk/~jsa/UMLJavaShortCourse09/CGOutput/Unit1/unit1\(0809\)/page_23.htm](http://www.cems.uwe.ac.uk/~jsa/UMLJavaShortCourse09/CGOutput/Unit1/unit1(0809)/page_23.htm)
- <http://www.ofnisystems.com/services/validation/functional-requirements/>
- <http://gnu.inflibnet.ac.in/bitstream/123456789/2214/1/ONLINE%20CAR%20RENTAL%20SYSTEM.pdf>