

A dark blue vertical bar is positioned on the left side of the slide. A blue arrow-shaped graphic points to the right, containing the date. In the bottom-left corner, there are several thin, curved lines in dark blue and light grey.

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Job Management case study

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Job Management - Schedule Task

Assumption:

1. Considering Job Management project is only applicable for Java batches (Job)
2. Considering Once Job is submitted that means it started running in background.
 - a. For testing purpose I have created new Java **ReadingFileTask.java** batch.
 - b. The main purpose of this job is to read file and display data on console.
3. Considering Job which we are selecting, its executable should be available in same folder of project.
4. If you have not entered any values in hours(00-23hr) and minutes(00-59 mn) textboxes then default value would be -1 for both text boxes. ***If values are -1 then this will started executing immediately.***

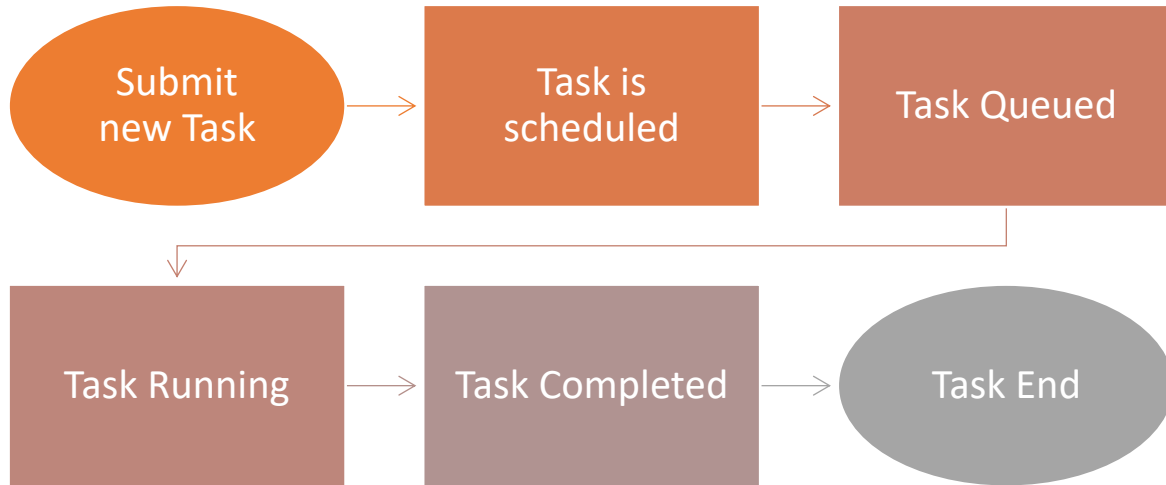
Future Improvement:

1. This system should have proper login machanism by using Authentication/Authorization process.
2. As of now this system is working on internal java data structures, in future this can be implemented by using database (which will be easy to handle states of job).
3. As of now this system is only supporting Java job, in future we can enhnace to handle python, linux batches etc.
4. We can get process id from running processes of the system by executing respective command process find in windows and linux system. And use this way to get correct states (*QUEUED, RUNNING, SUCCESS, FAILED*) of the submitted task.

Code Repository Details:

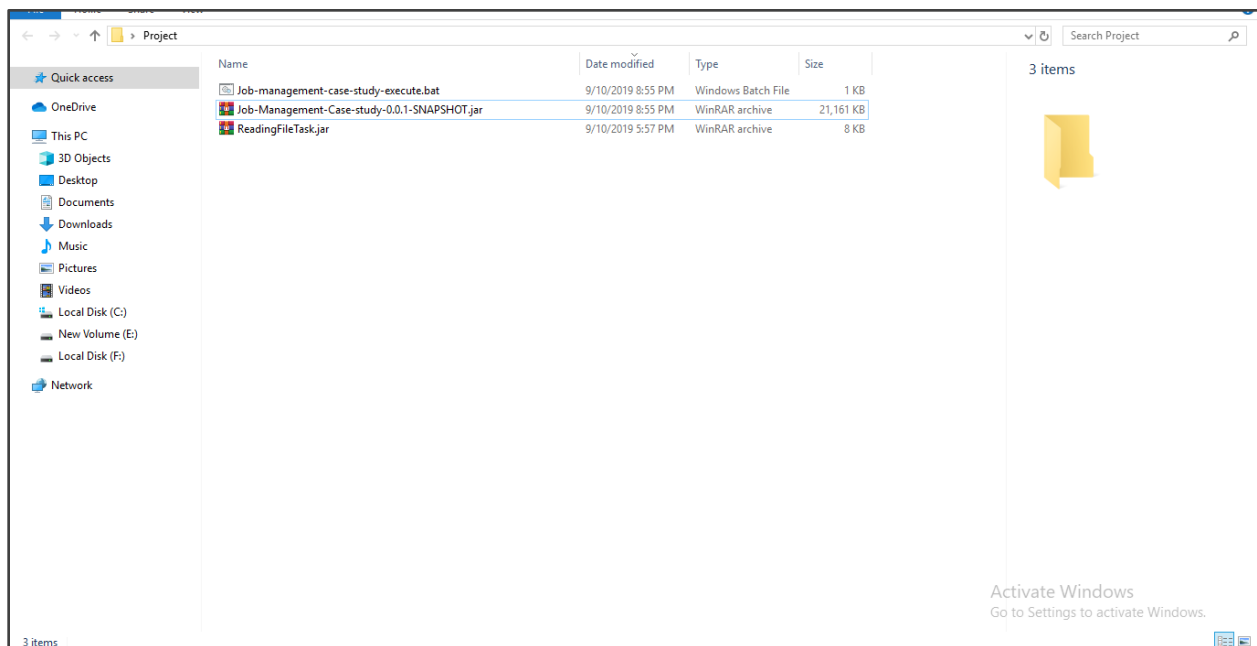
SR	Content	URL
1	Job Management	https://github.com/Rajesh1761/job-management-schedule
2	ReadingFileTask	https://github.com/Rajesh1761/ReadingFileTask
3	Build Jar	https://github.com/Rajesh1761/Job-management-schedule-build/

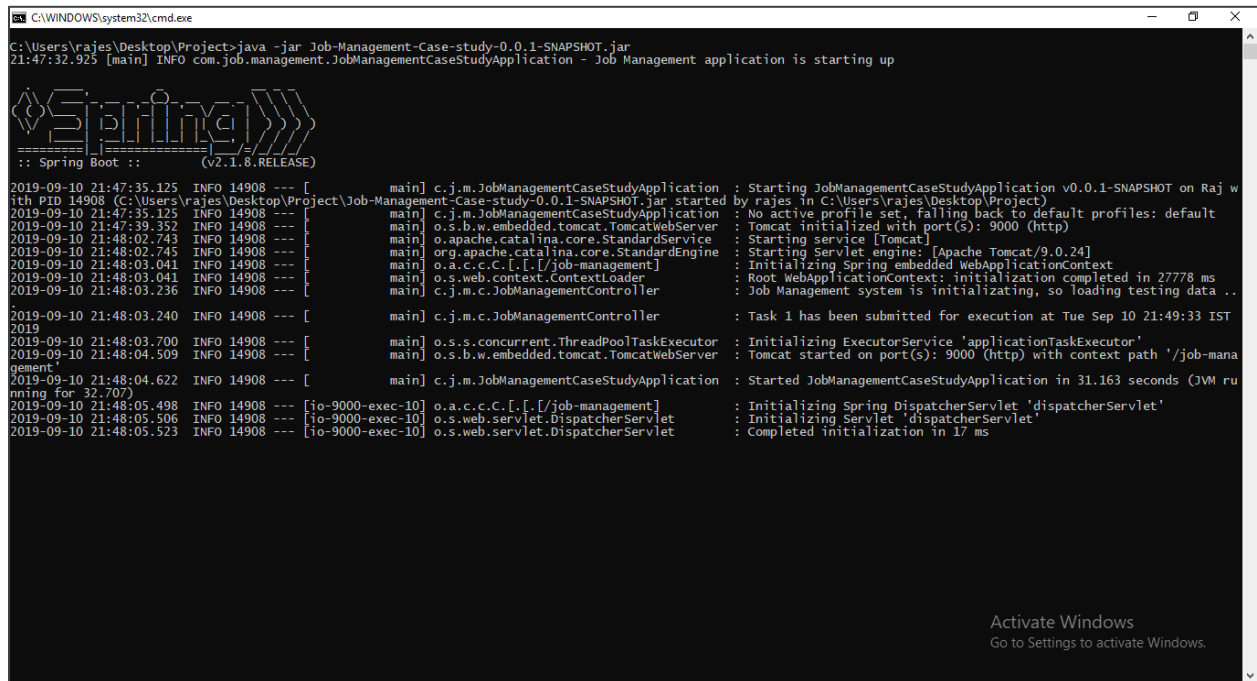
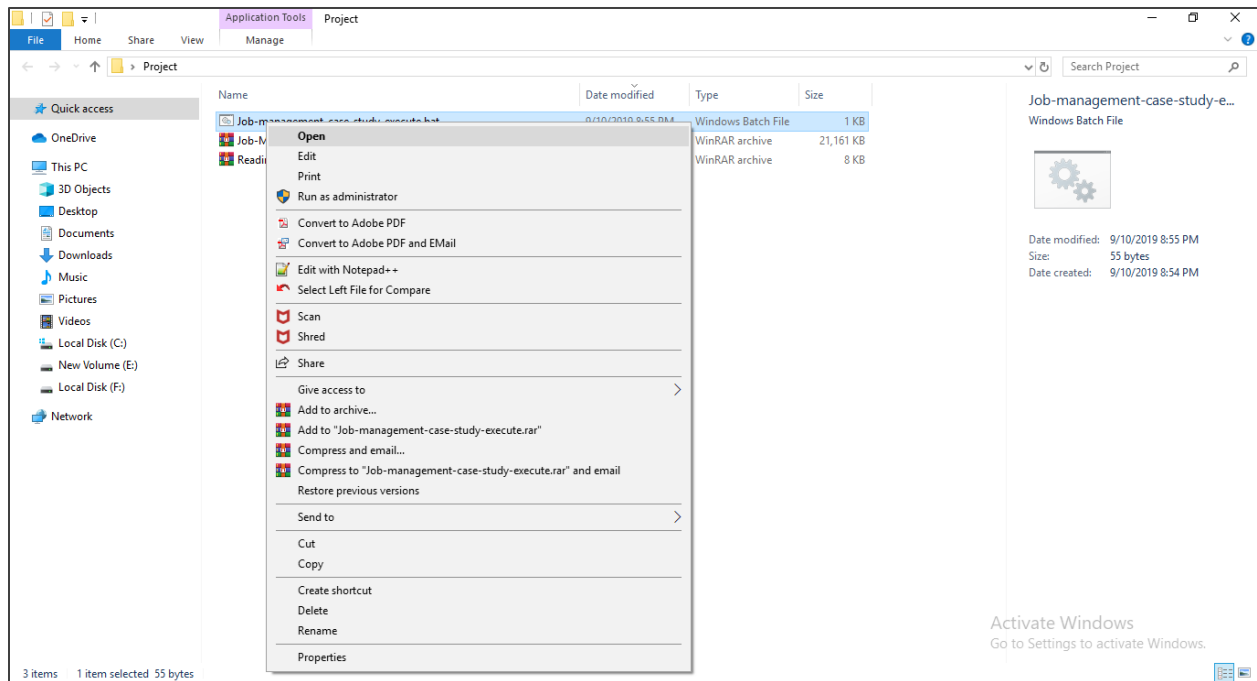
Case Study Diagram:

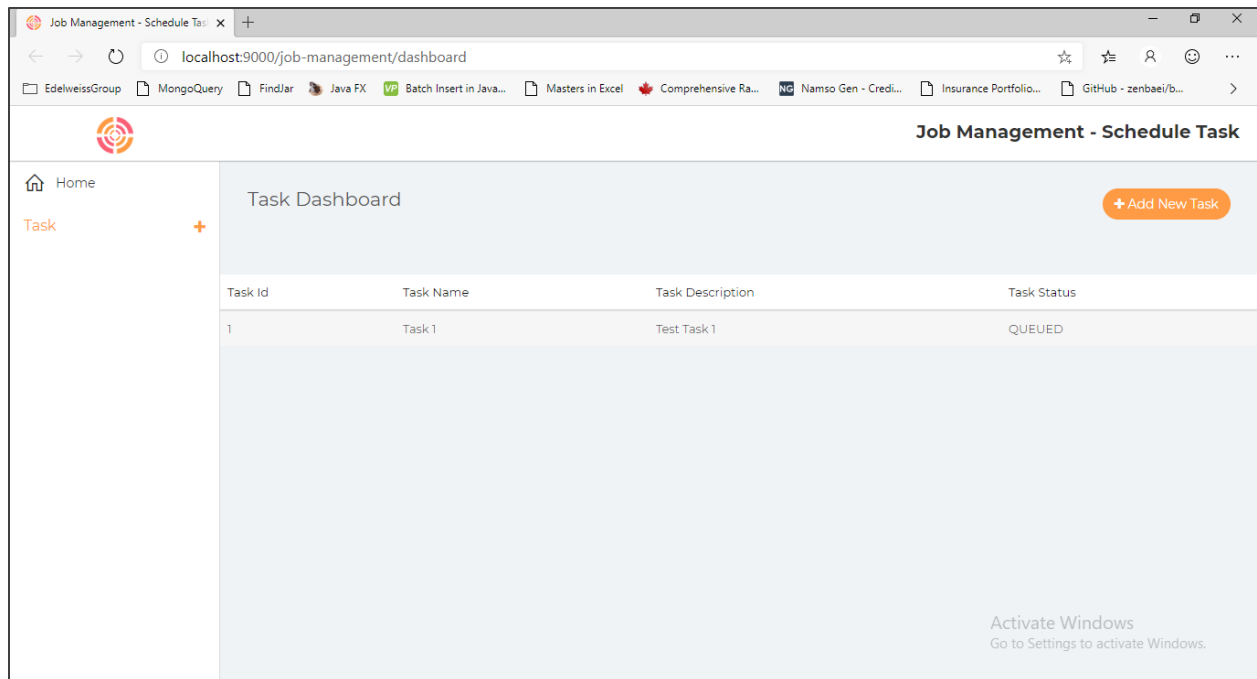


How to start this process:

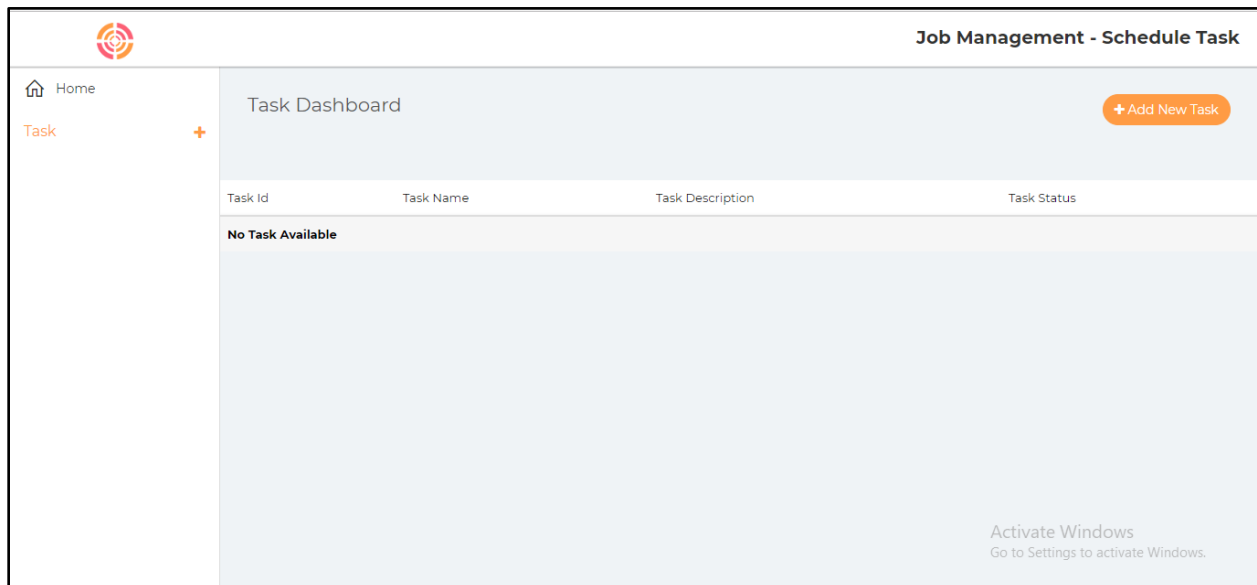
1. Download build project from [URL \(https://github.com/Rajesh1761/Job-management-schedule-build/\)](https://github.com/Rajesh1761/Job-management-schedule-build/)
2. Unzip project folder and u will get following files
3. Right click on **Job-management-case-study-execute.bat** and open it.
4. Command prompt will open and it start executing, it will have one testing record named (Task1)
5. This will open your default browser with URL (<http://localhost:9000/job-management/dashboard>)







Here you can add Task Manually by Clicking “**Add New Task**” button



Now fill the create Task form with following details(*This form should be filled within 20 sec otherwise page will be refreshed*) :

- Task Name
- Hour (*between 00-23, -1 indicates start executing immediately*)
- Minutes (*between 00-59, -1 indicates start executing immediately*)
- Priority (*HIGH,MEDIUM,LOW*) This features is not applicable
- Task Type (*Java, Python etc*) Currently applicable for Java only
- Choose Executable Batch file (***ReadingFileTask.jar*** available in project folder which you have extracted now)
- Task Description

Note: This form has some basic validation

- Task name must contain 3 character
- Hours text field should contains value from (-1 to 23 only)
- Minutes text field should contains value from (-1 to 59 only)
- Task type should be only Java
- Task Description must contain 5 character

Job Management - Schedule Task

Home Task +

Create Task

Task Name
Task1

Hours (Note: -1 Indicates start executing immediately) Minutes (Note: -1 Indicates start executing immediately)
-1 -1


Priority (Note: This feature is not applicable)
High

Task Type (Note: This feature is only applicable to Java) Select job path, which you would like to execute
Java Choose File ReadingFileTask.jar

Task Description
Test

Submit Task

Activate Windows
Go to Settings to activate Windows.



Job Management - Schedule Task

Home

Task

+

Task Dashboard

+ Add New Task

Task Id	Task Name	Task Description	Task Status
1	Task1	Test	SUCCESS
2	Task2	test	QUEUED
3	Task3	test	RUNNING

Activate Windows
Go to Settings to activate Windows.

How to stop this process:

1. Open command prompt which you have open just and process cntr+c (In windows)