

Software Requirements Specification Document

ETL,Teamnumber:28

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Brief problem statement

we are expected to develop a web based input system for ETL tools.Inputs from the database is taken for ex(spreadsheet,text,files ...etc).we have to join various database sources and link them with web based interface. ELT (Extract, Load, Transform) which transfers raw data from a source server to a data warehouse on a target server and then prepares the information for downstream uses.

System requirements

Framework Required

- 1.Springs Framework
- 2.JSP(Java Server Pages)
- 3.Angular Js
- 4.Bootstrap

Language Required

- 1.CSS
- 2.HTML
- 3.Java

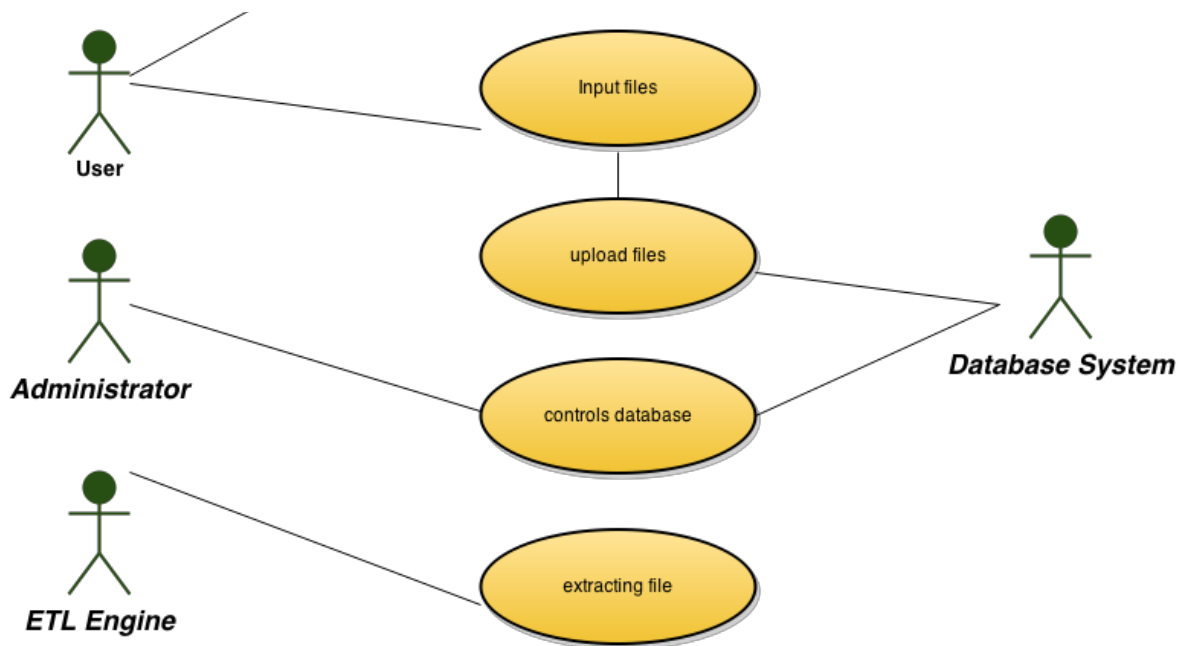
Users profile

Business Intelligence Developers use ETL for retrieving data from operational systems and pre-processes and for further analysis by reporting and analytics tools. Business Intelligence Developers usually have strong skills with SQL Server 2008/2012 suite including SSRS, SSRS, SSAS, and T-SQL, Power BI and Cloud BI solutions.

Feature requirements (described using use cases)

No.	Description	Release
1.	User selects the input source	R2
2.	Uploads it	R2
3.	ETL engine extracts the input	R2
4.	Generation of a ktr	R2
5.		
6.		
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Use case diagram



Use case description

Use Case Number:	UC-01
Name:	User Login
Overview:	Login authentication
Actors:	User ,Administrator
Pre condition:	First Step
Flow:	Main (success) Flow: User tries to login If the login is successful user can view which all files he has uploaded
	Alternate Flows: If authentication Faliure user will be redirected to login page
Post Condition:	User is successfully logged in

Use Case Number:	UC-02
Name:	Select Input source
Overview:	Giving input
Actors:	User
Pre condition:	The User is already logged in.
Flow:	Main (success) Flow: Selects input source option Chooses one among the list of input sources Give the values of the respective fields The input file type specified should match with fields uploaded
	Alternate Flows: If the input formats donot match he is redirected to the home page
Post Condition:	Input is loaded properly

Use Case Number:	UC-03
Name:	ETL engine extracts the input
Overview:	Extract step starts
Actors:	ETL engine
Pre condition:	Input is successfully uploaded
Flow:	Main (success) Flow: ETL engine select the file Extract the file
	Alternate Flows: If file cannot extracted follow from step 1
Post Condition:	File is successfully extracted

Use Case Number:	UC-04
Name:	ETL engine generates the ktr file
Overview:	Generate step starts
Actors:	ETL engine, Server
Pre condition:	Input is successfully extracted
Flow:	Main (success) Flow: Server gets the input Generate the ktr file
Alternate Flows:	If file cannot generated go to Uc-02
Post Condition:	Ktr file is successfully generated