DANALYZER

Documentation

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C.A.T- DANALYZER

Software Requirements Specifications

Contents

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C.A.T- DANALYZER

Software Requirements Specifications

Document Purpose and Audience

Document purpose: The initial software requirements specifications

Audience: This document is meant for owner companies in the oil and gas industry, who are interested in the purchase of software, for the purpose of analyzing their database contents

Introduction

Software Purpose

Provide an analytical database management software for production data management and reporting, as well as volume and allocation management.

Software Scope

- Data Entry
  - Table
  -
- Data Review
- Reports
- Plots
  - Pie Charts
  - Line Graph

Definitions, acronyms, and abbreviations

CAT: Computer Analytic Technologies Inc.
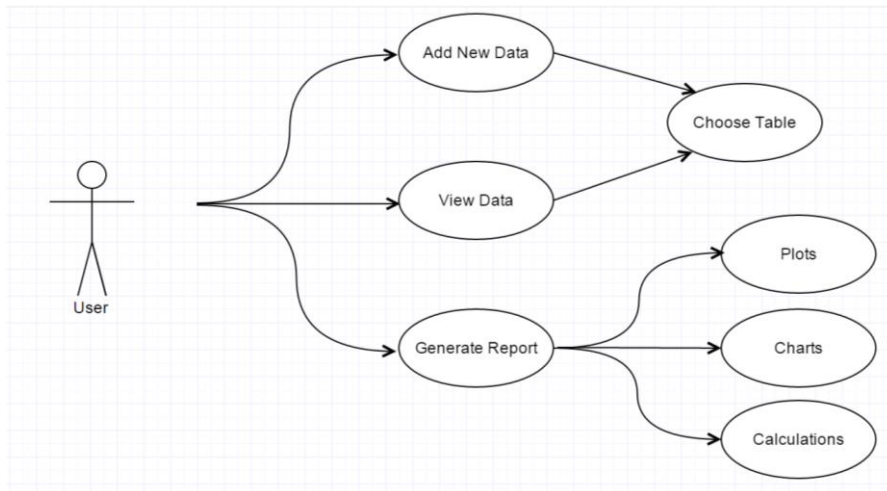
Requirements

Functional Requirements

- User can enter production data
- User can retrieve production data
- User can retrieve production data reports
  - Production rates (Daily/Hourly)
  - Downtime
  - Loss
  - Price loss
- User can retrieve production data Charts for one well
- User can retrieve production data line plots for two well

Software Requirements Specifications

System Models

Use Case Model

Use Case Tables

Use Case ID:	1	
Use Case Name:	Add New Data	
Actors:	Users	
Pre-conditions:	-	
Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User chooses table	
		2- System opens data entry interface
	3- User enters data	
		4- System adds data to the database
Exceptions:	-	

3

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Includes:	-
Notes and Issues:	-

Use Case ID:	2	
Use Case Name:	View Data	
Actors:	User	
Pre-conditions:	-	
Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User specifies the table	
		2- System retrieves data and views it to the user
Exceptions:	-	
Includes:	-	
Notes and Issues:	-	

Use Case ID:	3	
Use Case Name:	Generate Report	
Actors:	User	
Pre-conditions:	-	
Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User specifies action (Chart, Plot, or Claculation)	

C.A.T- DANALYZER

Software Requirements Specifications

		2- System responds according to user's choice.
Exceptions:	-	
Includes:	-	
Notes and Issues:	-	

Use Case ID:	4	
Use Case Name:	Plot	
Actors:	User	
Pre-conditions:	-	
Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User specifies well name(s). Max. 2	
		2- System retrieves daily production rates and shows it to the user in the form of line plot.
Exceptions:	-	
Includes:	-	
Notes and Issues:	-	

Use Case ID:	5
Use Case Name:	Chart
Actors:	User
Pre-conditions:	-

Software Requirements Specifications

Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User specifies well name	
		2- System retrieves monthly production data and views it to the user in the form of pie chart
Exceptions:	-	
Includes:	-	
Notes and Issues:	-	

Use Case ID:	6	
Use Case Name:	Calculations	
Actors:	User	
Pre-conditions:	-	
Post-conditions:	-	
Flow of events:	**User Action**	**System Action**
	1- User specifies calculation (Downtime, loss, price loss, production rate (daily/hourly))	
		2- System retrieves data, calculates chosen calculation, and shows it to the user
Exceptions:	-	
Includes:	-	
Notes and Issues:	-	

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Software Requirements Specifications

Ownership Report

Item	Owners
User Interface Design (front and back ends) and Integration	Amira
Line Graph Plots and Documentation	Nourhan
Calculations for Report, Pie Charts and Documentation	Youssef
Entering, Reviewing data and Business Proposal	Mahmood