Developer Guide

ATEASE SYSTEM

October 2020

USER GUIDE
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1.0 GENERAL INFORMATION

1.1 System Overview

The AtEase System is an application that allows students to easily purchase textbooks from second merchants. Through it, students are able to remotely compare textbook prices, acquire quotations and establish communication with the merchants to meet on campus for the actual transactions.

The second hand merchants will be able to showcase the books they are selling on the system, while keeping track of their stocks and sales.

1.2   Points of Contact

For additional information, please contact your [AtEase project manager](#)
- Sakhile Cindi – 073 469 4922
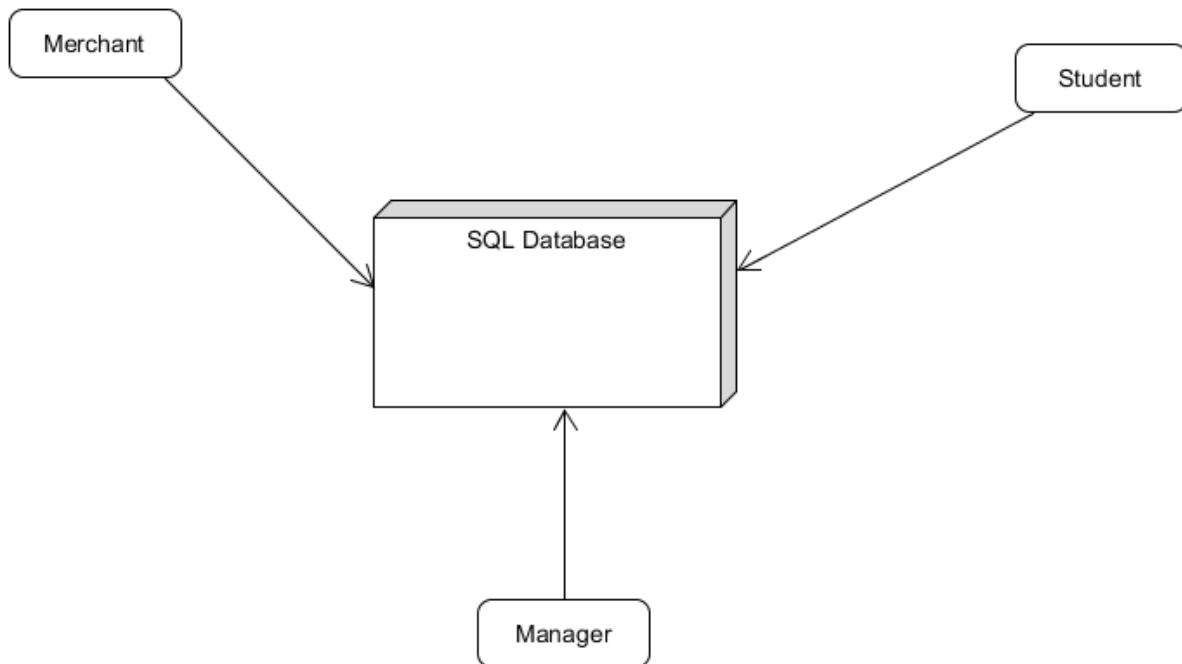- Thato Mashiyana – 076 670 9919
- Lindo Ntuli – 071 426 1651

1.2   Architectural Design

The AtEase system makes use of the **data-centred-architecture.** It consists of different components that communicate through shared data repository. These components are independent and interact through the data store.

1.2.1   Going into specifics

Our architecture uses **SQL database schema** hosted on **Azure.** It consists of 7 entities namely:
- Book
- Quotation
- Feedback
- Merchant
- Product
- Student
- Manager

1.3   Component Design

The centralized data is frequently accessed and modified by components in our system component design.

Azure Database

Database

TCP/IP

Azure Web Service

«artefact»
User Authentication
Subsystem

«artefact»
User Administration
Subsystem

«artefact»
Stock Management
Subsystem

«artefact»
Textbook Acquisition
Subsystem

«artefact»
Search
Subsystem

«artefact»
Rate
Subsystem

«artefact»
Administration
Subsystem

TCP/IP

«Device»
User

«OS»
Android

«artefact»
AtEase Mobile
Application

«Device»
User

«OS»
Web Browser

«artefact»
AtEase Web
Application