

CAPSTONE PROJECT DISSERTATION

GoLearn - Learning Resource Management System

Bradley Beasley

Supervisor: Dr Alexandoros Voudoris

April 9, 2024 Colchester

Contents

1	Intr	oduction	3
2	Background		
	2.1	Similar Services	4
	2.2	Tech Stacks	4
	2.3	Databases and ORMs	5
3	Technical Specification		
	3.1	Framework	6
	3.2	Database and ORM	6
4	Implementation		
	4.1	Authentication	7
	4.2	User Management	7
	4.3	CRUD Operations	7
	4.4	Data Loading	7
5	Testing		8
	5.1	Unit Testing	8
	5.2	Acceptance Testing	8
6	Conclusions		9

Introduction

Background

2.1 Similar Services

There are various LRMS's available in the market, with some of the more popular one being:

Skillshare

Udemy

LearnDash

Moodle

2.2 Tech Stacks

A 'Tech Stack' is the term used to describe the combination of programming languages, frameworks, libraries, and tools that are used to build a software application. The choice of a tech stack is crucial as it can affect the performance, scalability, and maintainability of the application. The following are some of the popular tech stacks used in web development:

LAMP/LEMP Stacks

MEAN/MERN/MEVN Stacks

2.3 Databases and ORMs

what is a database. what is an ORM popular databases and ORMs

Technical Specification

3.1 Framework

Which stack was chosen and why which framework was chosen within that stack and why

3.2 Database and ORM

Which database was chosen and why which ORM was chosen and why

Implementation

- 4.1 Authentication
- 4.2 User Management
- 4.3 CRUD Operations
- 4.4 Data Loading

Testing

- 5.1 Unit Testing
- 5.2 Acceptance Testing

Conclusions

Bibliography

 $^{^{0}}$ Information This document was written in LaTex and compiled with PDFTex and BibTex