

CanvasPath

Eric Roeum

February 25, 2019

Contents

References

List of Figures

1	Introduction	1
1.1	Objective	1
1.2	Stylization	1
2	Appendix	2
	References	2

List of Figures

1 Introduction

At Lion State University, staff and students need a system in order to maintain information about classes, students, grades, roles, and other aspects of school. Because of this, a database is required to hold all of this information in a usable format that student and teachers can access both easily and securely. This system will be called CanvasPath. The CanvasPath application will primarily be composed of four components:

- A login system
- Viewing courses
- Scheduling courses
- Deriving student information

As such, this system will be web browser based with a client-server implemented model. The client system will only be used for input/output, while the server will handle all database operations.

This system will be an updated version of the current applications: Canvas and LionPath. By integrating both systems into one, users will have more ease of use and will be able to do operations in one system instead of having to switch between both.

1.1 Objective

The purpose of the document is to propose an implementation for the CanvasPath application along with potential features. In addition to doing so, this document contains how the internal database should be organized along with potential designs. As a result, this document is divided primarily into five components:

- Requirements analysis
- Web Application Design
- Conceptual database design
- Technological survey
- Logical database design
- Schema Refinements

1.2 Stylization

Within this document, certain styles and notations will be used for readability. More specifically, italicization is reserved for only variable names (i.e. *Height*). Any other forms of text can be used in any other context. For entity-relationship (ER) diagrams, the textbook notation is used (See reference [1]).

2 Appendix

References

- [1] Ramakrishnan; Gehrke. *Database Management Systems- Third Edition*. McGraw-Hill Higher Education, 2003.