

Immersive Quiz for Spanish Learners

A Manuscript

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by

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Immersive Quiz for Spanish Learners

By Austin Klum

We recommend acceptance of this manuscript in partial fulfillment of this candidate's requirements for the degree of Master of Software Engineering in Computer Science. The candidate has completed the oral examination requirement of the capstone project for the degree.

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Abstract

Austin Klum, J., “Immersive Quiz for Spanish Learners,” Master of Software Engineering, May 2021, (Elliot Forbes, Ph.D.).

This manuscript describes the development of a virtual reality tool to provide an immersive quiz taking experience for Spanish learners. Virtual reality is

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Glossary

ANTLR

ANother Tool for Language Recognition. Successor to the Purdue Compiler Construction Tool Set (PCCTS). Currently maintained by Terence Parr.

BYACC/J

An extension of the Berkeley YACC-compatible parser generator. Can generate both C/C++ and Java parsers.

CUP

Constructor of Useful Parsers. A LALR parser generator written in Java.

IEEE

Institute of Electrical and Electronics Engineering. The world's largest professional association dedicated to advancing technological innovation and excellence for the benefit of humanity.

JFlex

A scanner generator for Java.

LALR

Look-Ahead Left to Right. LALR parsing algorithm, introduced by Frank DeRemer, provides the same high performance of LR parsing algorithm, introduced by Donald Knuth, but is more efficient in term of size.

LaTeX

LaTeX is a document markup language and document preparation systems for the TeX typesetting program.

SUT

System Under Test. This term refers to a system being tested for correct operation.

1. Introduction

1.1. Overview

This gives a brief overview of this section.

1.2. Point 1

This subsection gives a great deal of precise description supporting point 1. For example,

1.3. Point 2

This gives Point 2

2. Requirements

2.1. Overview

This gives a brief overview of this section.

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This subsection gives a great deal of precise description supporting point 1. For example,

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3. Design

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3.3. Point 2

This gives Point 2

4. Testing

4.1. Overview

This gives a brief overview of this section.

4.2. Point 1

This subsection gives a great deal of precise description supporting point 1. For example,

4.3. Point 2

This gives Point 2

4.4. Point 3

This gives Point 3

5. Conclusion

5.1. Overview

This gives a brief overview of this section.

5.2. Point 1

This subsection gives a great deal of precise description supporting point 1. For example,

5.3. Point 2

This gives Point 2

6. Bibliography

7. Appendices