## CONTENTS

1	Introduction		
	I-A	Background and Motivation	
	I-B	Problem Statement	
	I-C	Research Questions	
	I-D		
		Scope and Limitations	
	I-E	Structure of the Thesis	
II	Theoret	ical Background	
11		· ·	
	II-A	Model-Driven Engineering	
	II-B	Model transformation	
	II-C	Eclipse Foundation	
	II-D	Eclipse Modeling Framework (EMF)	
	II-E	Henshin	
	II-F	Graphical Language Server Platform (GLSP)	
		Graphical Emigrage Server Function (GEST)	
III	Related	Work	
	III-A	Scientific Literature	
	III-B	Existing Tools and Technologies	
	III-C	Comparison and Gaps	
IV	Require	ments Analysis	
1 4	IV-A	·	
		Functional Requirements	
	IV-B	Non-Functional Requirements	
	IV-C	Stakeholders and Use Cases	
	IV-D	System Constraints	
V	System	Design and Architecture	
	V-A	High-Level Architecture	
	V-B	Component Design	
	V-C	Data Flow and Control Flow	
	V-C V-D	Data Models and Structures	
	V-E	User Interface Design	
VI	Implementation		
VI	_		
	VI-A	Development Process	
	VI-B	Key Features and Functionality	
	VI-C	Tooling and Environment	
	VI-D	Code Examples	
VII	_	and Evaluation	
	VII-A	Testing Strategy	
	VII-B	Test Results and Coverage	
	VII-C	Performance Evaluation	
	VII-C VII-D	User Feedback	
	VII-E	Comparison with Requirements	
VIII	Discussi	on	
A 111		Interpretation of Results	
		1	
	VIII-B	Challenges and Limitations	
IX	Conclus	ion and Future Work	
1/1			
	IX-A	Summary of Contributions	
	IX-B	Suggestions for Future Development	