NB: All in paper notes will be marked with the word TODO in upper case letters.  
TODO: Frontpage goes here! Fix in a pdf creator?

# Abstract

Contents

[Abstract i](#_Toc360290225)

[Preface iii](#_Toc360290226)

[1 Introduction 1](#_Toc360290227)

[1.1 Background 1](#_Toc360290228)

[1.2 Essaychapters.. 1](#_Toc360290229)

[1.3 Problem statement 1](#_Toc360290230)

[1.4 Outline 1](#_Toc360290231)

[2 Methodology 1](#_Toc360290232)

[2.1 Selection criteria 1](#_Toc360290233)

[3 Part 1 (change this) 1](#_Toc360290234)

[4 Part 2 (and this) 1](#_Toc360290235)

[5 Results? Or under each part? 1](#_Toc360290236)

[6 Conclusion 1](#_Toc360290237)

# Preface

# Introduction

TODO: most of essay will be under here.

## Background

From Essay: Background and introduction chapter (minus the “in this paper “stuff)

## Essaychapters..

## Problem statement

## Outline

## Terminology

TODO: Define framework == library in some cases (socket.io, SignalR)  
TODO: Transports == WebSockets, SSE, Long-Polling….

# Methodology

TODO: Where to write how many frameworks??  
TODO: What tense to write in??

To be able to compare the five frameworks, I need to have a complete impression of each–both what they deliver in form of usability and how they perform. Consequently, the work on(TODO: with?) this thesis will be split into two parts.

In the first part the frameworks will be reviewed from a programmers perspective. This includes aspects like documentation, API, learning curve and other elements concerning general usability.

The second part will look at how well each framework performs. Each framework will be put through a series of load tests for different scenarios. In the end, this will give objective results as opposed to the more opinion-based testing I will do in the first part.

## Selection criteria

Screening for the five frameworks that will be featured in the thesis, will be done by the criteria described in this section. Each of the selected framework will have to stand out from the rest in order to be considered for further research.

TODO: subsections describing each criteria or just a bullet list?

### WebSockets support

A framework does not need to offer WebSockets support in order to be considered, but it must at least mention plans for it, either in a roadmap or somewhere else on the frameworks homepage. However, if WebSockets is not supported, the framework has to offer something unique design or functionality that makes it worthwhile for a deeper study.

### Fallbacks

Supporting as many systems as possible is almost always the goal for computer software. For a web application framework that generally means supporting all major browsers. Certain transports are unavailable to older browsers. Therefore, a good real time framework has fallbacks in order to support as many browsers as possible. If a framework has support for one transport only, it is not eligiblefor this thesis.

# Part 1 (TODO: change this)

# Part 2 (TODO: change this)

# Results? Or under each part?

# Conclusion