FH JOANNEUM (University of Applied Sciences)

**Usage possibilities of WebRTC in a cross-platform developed hybrid app**

**Bachelor Thesis**

**submitted in conformity with the requirements  
for the degree of  
Bachelor of Science in Engineering (BSc)**

Bachelor’s degree program **Internettechnik**FH JOANNEUM (University of Applied Sciences), Kapfenberg

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06 / 2016

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Abstract

Kurzfassung

# Introduction

# Cross-platform mobile development

Introduction, motivation

PAPER-1

PAPER-5 [In this context, the challenge for web developers is to de-

velop di\_erent versions of their applications that are cus-

tomized to suit the speci\_c characteristics of the di\_erent

platforms, yet provide a consistent set of features and ser-

vices across all versions.]

* API

-🡪 Model Driven Development? (PAPER-6)

## Differences to native app development

PAPER-2

Difference native/compiled versus web/interpreted code

Sensor/device access

User experience (push notifications, access to phonebook, contacts)

Ability to use app offline (HTML5 application cache – PAPER-3)

## Motivation

Pro / con

PAPER-7

## Approaches

PAPER-1

PAPER-9

### Web apps

### Hybrid apps

### Interpreted apps

### Generated apps

## Cross-platform development frameworks

PAPER-4

Important criteria for choosing a framework

### Apache Cordova (PhoneGap)

### Xamarin

### Titanium

### Ionic

# WebRTC

# Prototype development

# Evaluation

# Results

# Outlook

# Conclusion

List of tables

**Es konnten keine Einträge für ein Abbildungsverzeichnis gefunden werden.**

List of figures

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List of abbreviations

Bibliography