ManiHome

Martin&Thomas

Manipal, India

FINAL DISSERTATION REPORT

SUBMITTED TO MANIPAL UNIVERSITY, MANIPAL

प्रज्ञानं ब्रह्म

Manipal

INSPIRED BY LIFE

in partial fulfilment of the requirements for the award of degree of

MASTER OF COMPUTER APPLICATIONS

By

Thomas LECLERCQ (Reg.No 160983003)

Under the guidance of

TojoThomas
Assistant Professor - Senior Scale
Department of Computer Applications
M.I.T, Manipal 576104

प्रज्ञानं ब्रह्म

Manipal

INSPIRED BY LIFE

DEPARTMENT OF COMPUTER APPLICATIONS
MANIPAL INSTITUTE OF TECHNOLOGY
(A constitute college of Manipal University)
MANIPAL-576104, KARNATAKA , INDIA

KNOWLEDGE IS POWER
MANIPAL INSTITUTE OF TECHNOLOGY

March 2017

Date: 15/05/2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the project report entitled **ManiHome** is an authenticated record of the project work carried out by **ThomasLeclercq** in partial fulfilment of the requirements for the award of degree of **Master of Computer Applications** offered by Manipal University, under my guidance and supervision from 01/08/2016 to 31/05/2017

External Guide

Signature   **Seal**

DECLARATION

I hereby declare that the project work entitled "(**ManiHome**)" is original and has

been carried out at Manipa University, MCA

under the guidance of Dr Hareesha KS and Tojo Thomas

I further declare that the work reported

in this document has not been submitted either in part or full to any other Insti-

tute/University for the award of any other degree.

Thomas Leclercq

Reg.No 160983003

Date: 15/05/2017

CERTIFICATE

This is to certify that the project report entitled "(**ManiHome**)" is an authenticated record of the project work carried out by "Thomas Leclercq" (160983003), in partial fulfilment of the requirements for the award of degree of Master of Computer Applications offered by Manipal University, under my guidance and supervision, from 01/08/2016 to 31/05/2017.

Internal guide   **HOD**

TojoThomas   **DrHareeshaKS**
Assistant Professor - Senior Scale   Professor & HOD
Department of Computer Applications   Department of Computer Applications
M.I.T, Manipal 576104   M.I.T, Manipal 576104

iii

ACKNOWLEDGMENTS

This section should contain the acknowledgements due to the Director, Dept HOD, Project supervisor, company personnel, Department Guide, Laboratory In-charge (where the work was carried out) and Faculty members whose assistance was sought during the project work.

<div align="right">(Thomas LECLERCQ)</div>

ABSTRACT

ManiHome is a solution to find easily a flat/house in Manipal. It's a centralized mobile application where everyone can browse, add and view available accommodations and chat easily with the owner of this one.
It's a first in the area, no existante solution is available and we offer a free alternative to brokers.

The system is a mobile application and a server that will contain the database.
We built the mobile application using React-native library (node.js) and the server using Phoenix Framework (elixir)
The source code is versionned on Github and is open-source.

Doing this project made me improve greatly my knowledge in mobile and server development in two different languages, it was a challenge to offer the best user interface on the application.
It was interesting to make a project that can be usefull to a large amount of people (students of manipal) and find a way to create a innovative product that have a real need. We choosed to not monetize the application but it would be fairly easy to make it rentable.

Tools used :
  versionning : git
  server hosting: linux
  mobile plateform: android
  continuous integration: travis-ci
  server framework : Phoenix - elixir
  application framework : React-Native (node.js)
  project managment: github - agile