The Office of Technology Management

UNIVERSITY OF TEXAS ARLINGTON

Tech ID: UTA 14-41

SCREENSHOT REVERSE ENGINEERING TOOL FOR MOBILE APPS

INVENTORS: Dr. Christoph Csallner, Tuan Anh Nguyen

TECHNOLOGY NEED

In the process of mobile app development, the graphical designer creates conceptual user interface drawings (screenshots) in Photoshop. These drawings are further handed over to the programmers who manually and stepwise convert these drawing into the user interface code. This procedure is time and labor intensive, which results in excessive costs.

INVENTION DESCRIPTION/SOLUTION

Researchers at UT Arlington have developed a tool that will eliminate the entire designer's and programmer's role by automating the entire procedure of app development from screenshot to code generation. Our tool takes screenshots of an app's user interface as an input. Further, analyzes the screenshots and converts it into an executable mobile phone app. The generated app will have a similar user interface as that of an input screenshot. The disclosed technology is compatible of generating iOS, Android and HTML5 source and executable code.

a) Screenshot **b)Generated app**

APPLICATIONS

- Mobile App Development
- Reverse Engineering
- Prototype generation of mobile app

KEY BENEFITS

- Faster UI generation
- Cost saving
  - Less cycle time
  - Less labor
- iOS, Android, HTML5 Compatible

STAGE OF DEVELOPMENT

Prototyped and Tested

INTELLECTUAL PROPERTY STATUS

Patent Pending

Publication

Reverse engineering mobile application user interfaces with REMAUI

About the Inventor:
Dr. Christoph Csallner

Contact information
For licensing, please contact
Koffi Selom Egbeto
(Licensing Associate)
koffi.egbeto@uta.edu
otm@uta.edu

Our mailing Address:
The Office of Technology Management
701 S Nedderman drive,
Suite 350, Arlington, TX 76019

Connect with us: