SCREENSHOT REVERSE ENGINEERING TOOL FOR MOBILE APPS

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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.

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