



FAM
Faculdade de Americana

MIT App Inventor

Apresentação

Prof. Daives Bergamasco



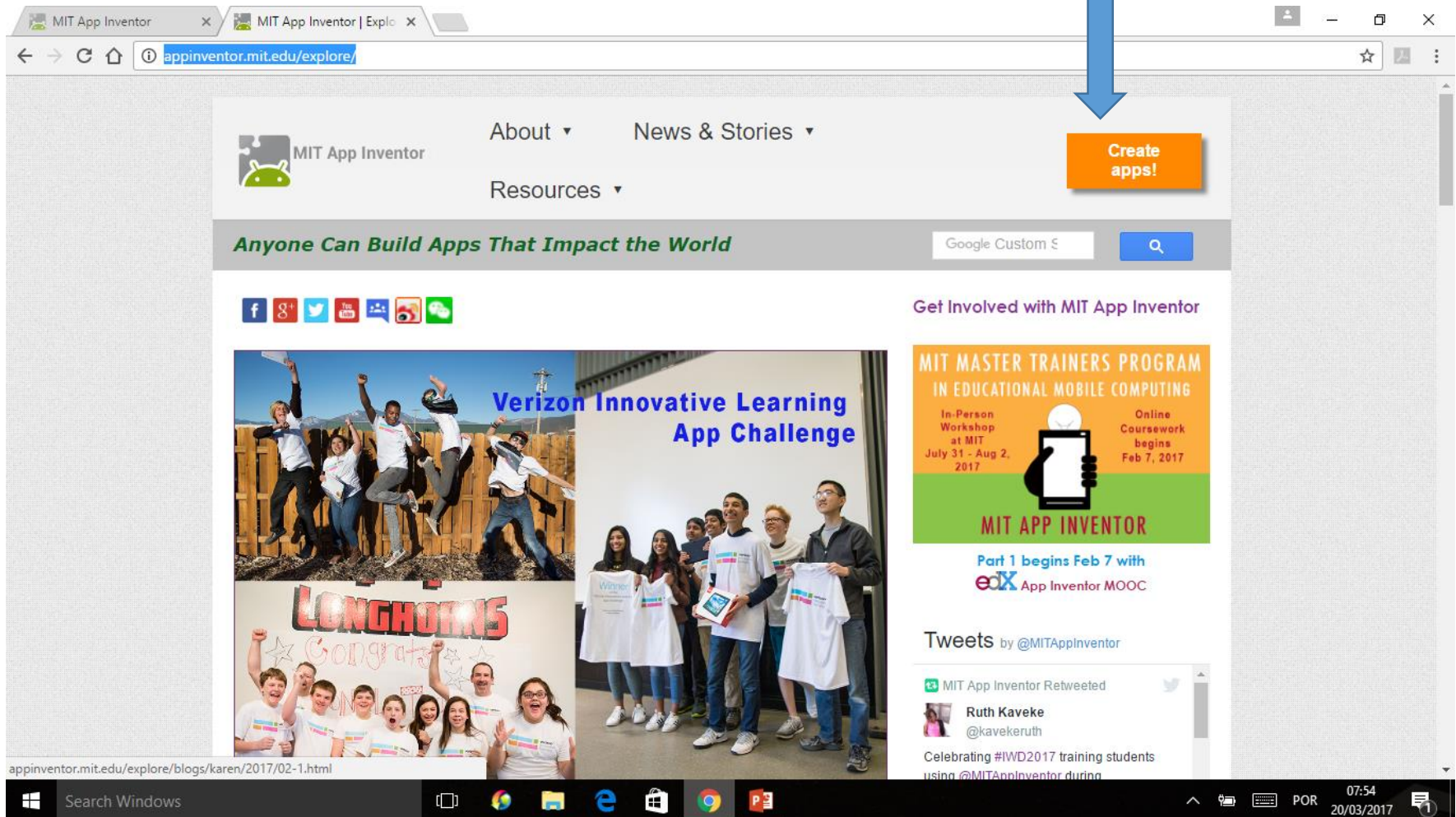
Welcome to MIT App Inventor

Condição Inicial:

Ter uma conta de mail no google.

Plataforma On Line:

<http://appinventor.mit.edu/explore/>



The screenshot shows the MIT App Inventor website interface. At the top, there are navigation links: "About", "News & Stories", and "Resources". A prominent orange button labeled "Create apps!" is located in the top right corner, with a large blue arrow pointing down towards it from the top of the page. Below the navigation bar is a banner with the text "Anyone Can Build Apps That Impact the World" and a search bar. The main content area features social media icons, a section titled "Get Involved with MIT App Inventor" with details about the "MIT MASTER TRAINERS PROGRAM IN EDUCATIONAL MOBILE COMPUTING", and a "Tweets" section showing a tweet from @MITAppInventor celebrating #IWD2017 training students.

MIT App Inventor

About ▾ News & Stories ▾

Resources ▾

Create apps!

Anyone Can Build Apps That Impact the World

Google Custom S

Get Involved with MIT App Inventor

MIT MASTER TRAINERS PROGRAM
IN EDUCATIONAL MOBILE COMPUTING

In-Person Workshop at MIT
July 31 - Aug 2, 2017

Online Coursework begins
Feb 7, 2017

MIT APP INVENTOR

Part 1 begins Feb 7 with
edX App Inventor MOOC

Tweets by @MITAppInventor


MIT App Inventor Retweeted

Ruth Kaveke
@kavekeruth

Celebrating #IWD2017 training students using @MITAppInventor during

appinventor.mit.edu/explore/blogs/karen/2017/02-1.html







Daives Bergamasco

daivesbergamasco@gmail.com

Signed out






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Signed out



Definição:

É uma ferramenta desenvolvida pelo Google e, atualmente, mantida pelo Instituto de Tecnologia de Massachusetts (MIT); que permite a criação de aplicativos para smartphones que rodam o sistema operacional Android, usando programação em blocos.

Recomendações

✓ Computador e Sistema Operacional:

- Macintosh (com processador Intel): Mac OS X 10.5 ou superior
- Windows: Windows XP, Windows Vista, Windows 7, 8, 8.1 e 10
- GNU / Linux: Ubuntu 8 ou superior, Debian 5 ou superior.

Nota: No GNU / Linux o desenvolvimento ao vivo é suportado apenas para conexões Wi-Fi entre o computador e o dispositivo Android.

✓ Navegador:

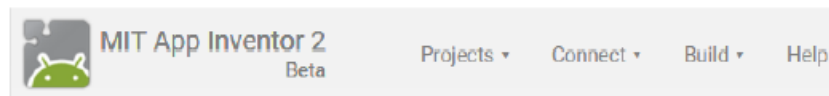
- Apple Safari 5.0 ou superior
- Google Chrome 4.0 ou superior
- Mozilla Firefox 3.6 ou superior

Nota: Se você estiver utilizando o Firefox com a extensão NoScript, você precisa deixar a extensão off.

Recomendações

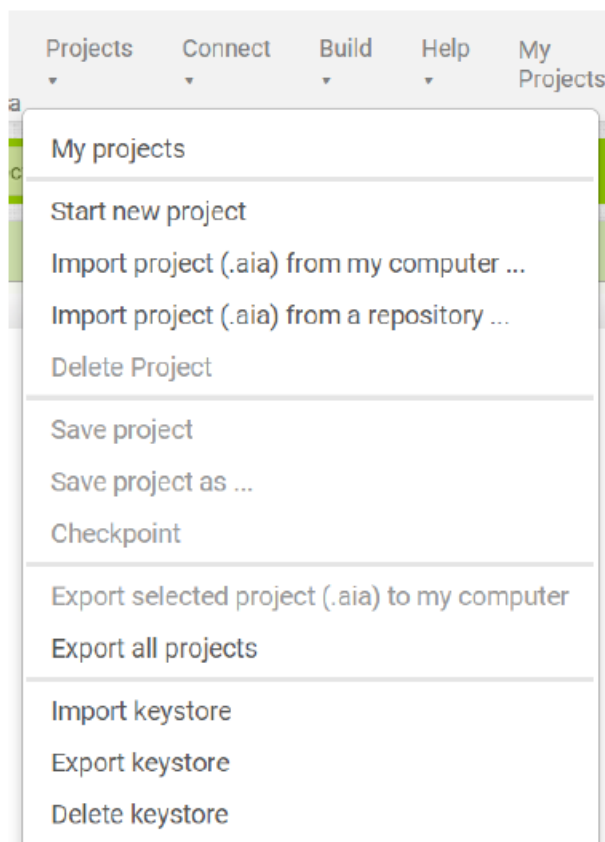
- ✓ **Celular/Tablet:** Sistema operacional Android 2.3 ("Gingerbread") ou superior.
- ✓ **Emulador:** Construa seu projeto no computador e teste em tempo real no seu computador utilizando o “Emulador” (necessário fazer download), links a seguir:
- ✓ **Mac OS X:** http://appinv.us/aisetup_mac (Instruções de uso em inglês: <http://appinventor.mit.edu/explore/ai2/mac.html>)
- ✓ **Windows:** http://appinv.us/aisetup_windows (Instruções de uso em inglês: <http://appinventor.mit.edu/explore/ai2/windows.html>)
- ✓ **Linux:** http://appinv.us/aisetup_linux_deb (Instruções de uso em inglês: <http://appinventor.mit.edu/explore/ai2/linux.html>)

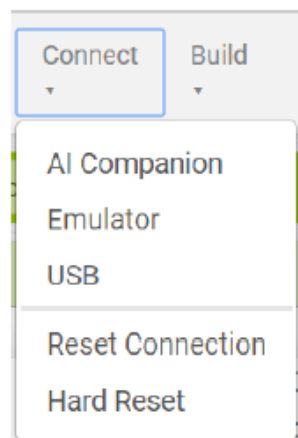
O que tem no Menu do site App Inventor



Projects (Projetos):

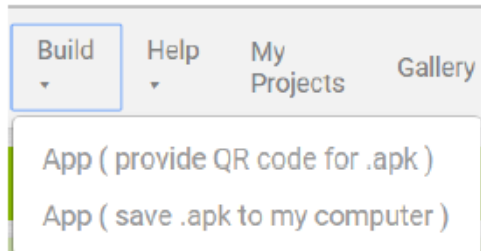
- My Projects (Meus Projetos) - Exibe a lista dos projetos feitos
- Import project (.aia) from my computer (Importar projeto de extensão .aia do meu computador)
 - Import Project (.aia) from a repository (Importar projeto de extensão .aia de um repositório) - Podendo inserir URL de templates prontos
- Delete project (Deletar projeto)
- Save project (Salvar projeto)
- Save Project as... (Salvar projeto como...)
- Checkpoint (Ponto de inspeção)
- Export selected project (.aia) to my computer (Exportar projeto selecionado de extensão .aia para o meu computador)
 - Import keystore (Importar chave de armazenamento)
 - Export keystore (Exportar chave de armazenamento)
 - Delete keystore (Deletar chave de armazenamento)





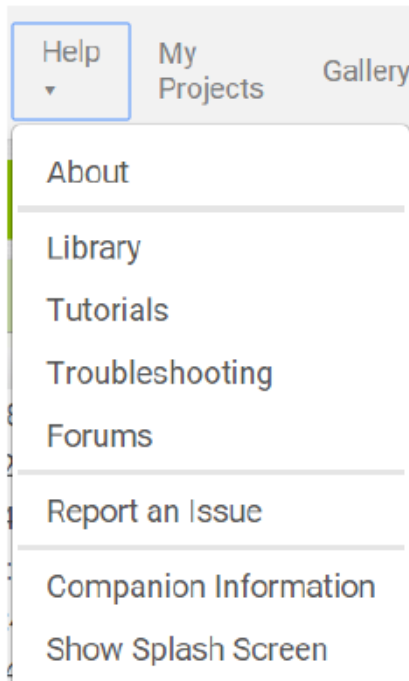
Connect (Conectar):

- **Ai Companion (Conecta-se através de QR Code ao aplicativo do MIT instalado no celular, para poder visualizar o projeto em tempo real)**
- **Emulator (Conecta-se ao emulador para simular um ambiente Android no próprio computador - precisa ter o emulador instalado no computador)**
- **Reset Connection (Resetar a conexão do dispositivo)**
- **Hard Reset (Forçar resetar - caso trave na hora de testar)**



Build (Construir):

- App (provide QR code for .apk) - Aplicativo (prover QR code para o arquivo .apk)
- App (save .apk to my computer) - Aplicativo (salvar a extensão .apk no meu computador)



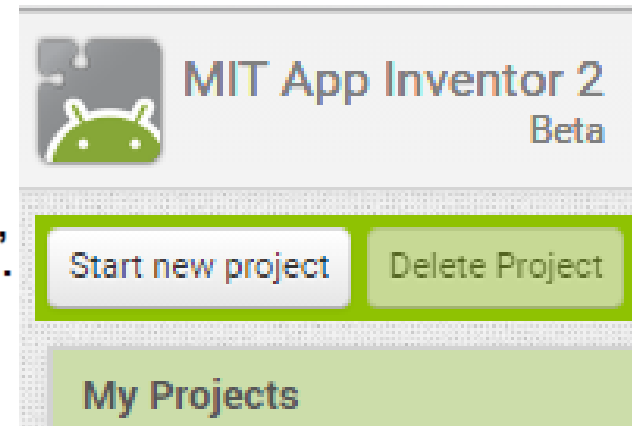
Help (Ajuda):

- About - Sobre
- Library - Biblioteca
- Get Started - Como começar
- **Tutorials - Tutoriais MIT App Inventor**
- Troubleshooting - Solução de problemas
- Forums - Fóruns
- Report an Issue - Reportar um problema
- Companion Information - Informação do "Companion"
- Show Splash Screen - Exibe a tela "Inicial" do MIT App Inventor



Começando um Novo Projeto

- Inicie um novo projeto, clicando em: “Project - Start new Project”.
- Nomeie o projeto (sem espaços) e clique em **OK**.



Visão Geral

Designer



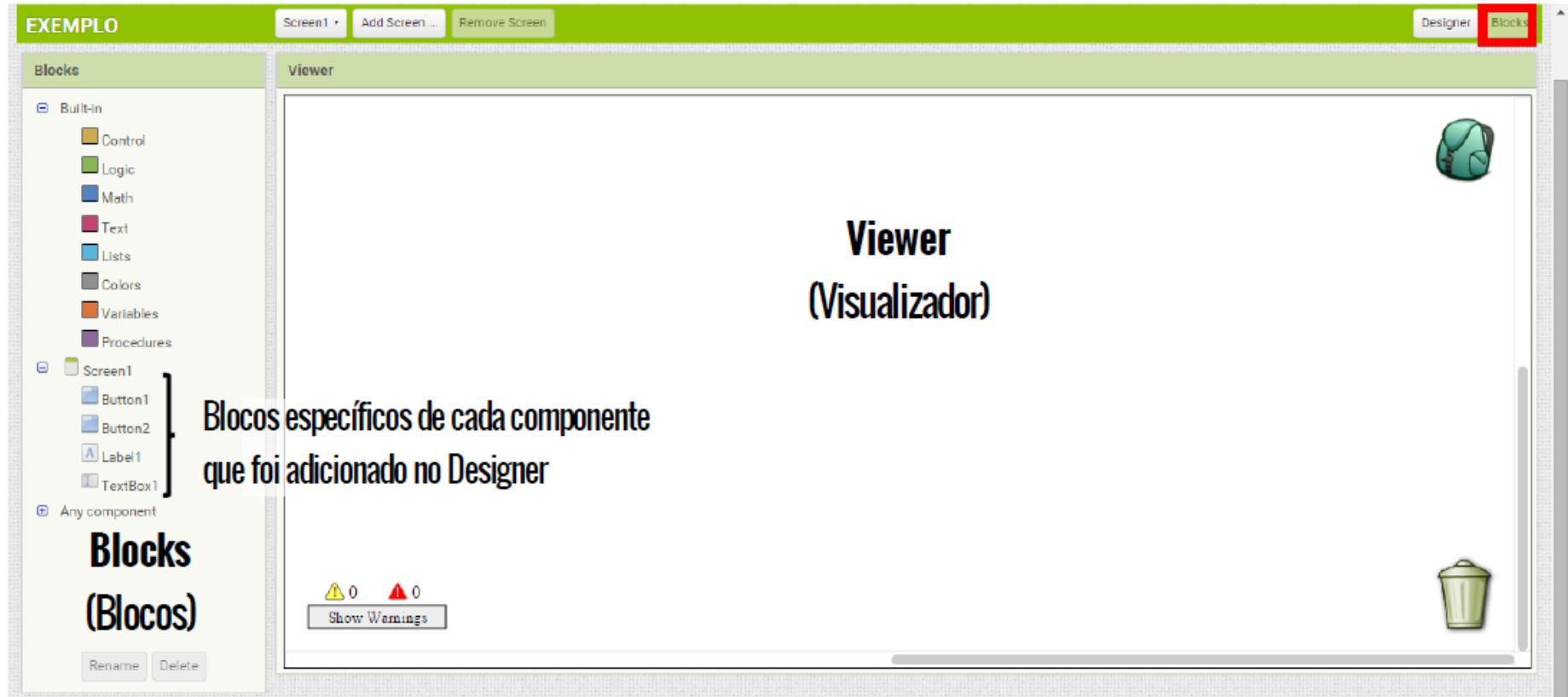
The screenshot shows the MIT App Inventor Designer interface. The top bar includes a tab labeled "EXEMPLO" and buttons for "Screen1", "Add Screen...", and "Remove Screen". On the right, the "Designer" tab is selected and highlighted with a red box, next to the "Blocks" tab.

The interface is divided into four main panels:

- Palette (Paleta):** Located on the left, it contains a "User Interface" section with various components like Button, TextBox, ListView, DatePicker, CheckBox, Label, Slider, PasswordTextBox, Notifier, Image, WebViewer, and Spinner. Below this are sections for "Layout", "Media", "Drawing and Animation", and "Sensors". An annotation "Lista de componentes" (List of components) points to this panel.
- Viewer (Visualizador):** The central area shows a preview of the app on a mobile device screen. It contains the text "Screen1" and "Organize os componentes aqui" (Organize the components here). An annotation "Viewer (Visualizador)" points to this panel.
- Components (Componentes):** Located on the right, it shows a list of components added to the app, currently displaying "Screen1". An annotation "Components (Componentes)" points to this panel.
- Properties (Propriedades):** On the far right, it shows the properties for the selected component, "Screen1". Properties include "AboutScreen", "AlignHorizontal", "AlignVertical", "AppName", "BackgroundColor", "CloseScreenAnimation", "Icon", "OpenScreenAnimation", "ScreenOrientation", and "Scrollable". An annotation "Properties (Propriedades)" points to this panel. Another annotation "Altere a configurações de cada componente" (Change the settings of each component) points to the "Screen1" property field.

A aba Designer é onde você pode trabalhar o seu app. Nessa janela você cria a aparência de seu aplicativo, e especifica quais os componentes que irão ser utilizados. Você escolhe componentes na "Paleta" como botões, imagens, caixas de texto e funcionalidades como sensores e GPS.

Blocks



The screenshot shows the MIT App Inventor web interface. At the top, there's a green header bar with the text "EXEMPLO" on the left and "Designer" and "Blocks" on the right. The "Blocks" tab is highlighted with a red border. Below the header, the interface is split into two main sections: "Blocks" on the left and "Viewer" on the right. The "Blocks" section contains a list of built-in components categorized by color: Control (orange), Logic (green), Math (blue), Text (red), Lists (light blue), Colors (grey), Variables (brown), and Procedures (purple). Under "Screen1", there are specific components: Button1, Button2, Label1, and TextBox1. Below this list, there's a section for "Any component" with a search bar and "Rename" and "Delete" buttons. The "Viewer" section is titled "Viewer (Visualizador)" and shows a large white area for visualizing the app. In the bottom left of the viewer, there are warning icons (yellow and red triangles) and a "Show Warnings" button. In the bottom right, there's a trash can icon.

Blocks
(Blocos)

Blocos específicos de cada componente
que foi adicionado no Designer

Viewer
(Visualizador)

A aba Blocks (blocos) é onde você pode programar seu app. Nessa janela você encontra diferentes tipos de blocos, você consegue programar as funcionalidades do seu aplicativo conectando os blocos como em um quebra cabeça.



MIT App Inventor

ai2.appinventor.mit.edu/?locale=en#6292963757129728

Palette

User Interface

Layout

- HorizontalArrangement
- HorizontalScrollArrangement
- TableArrangement
- VerticalArrangement
- VerticalScrollArrangement

Media

Drawing and Animation

Sensors

Social

Storage

Connectivity

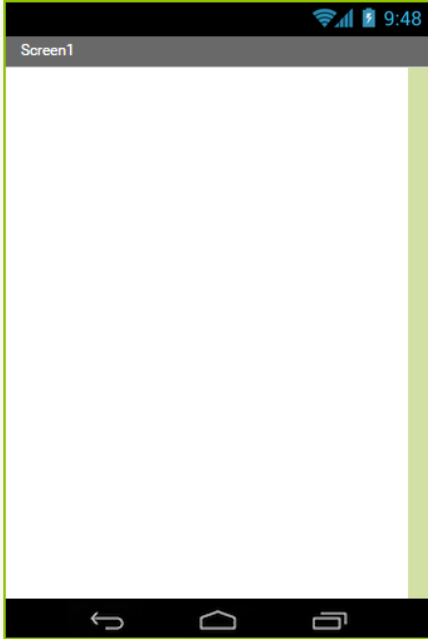
LEGO® MINDSTORMS®

Experimental

Extension

Viewer

☐ Display hidden components in Viewer
☐ Check to see Preview on Tablet size.



Components

- Screen1

Rename Delete

Media

Upload File ...

Properties

Screen1

AboutScreen

AlignHorizontal

Left: 1

AlignVertical

Top: 1

AppName

Fam01

BackgroundColor

White

BackgroundImage

None...

CloseScreenAnimation

Default

Icon

None...

OpenScreenAnimation

Default

ScreenOrientation

Unspecified

Scrollable

ShowStatusBar

Windows taskbar: 18:17 08/08/2016