

A Mobile Platform for Preschool Education TCY 1-14

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Overview

Background

Research shows that there is a communication gap between the parents of kindergarten children and their teachers. Dudu Diary is a product by our sponsor, 8am Studio, that allows parents to be kept up to date regarding the education of their children.

The aim of this project is to create an Android app for Dudu Diary that facilitates information sharing between parents and teachers. Educational features are also introduced in the app for parents to use together with their children.

Features

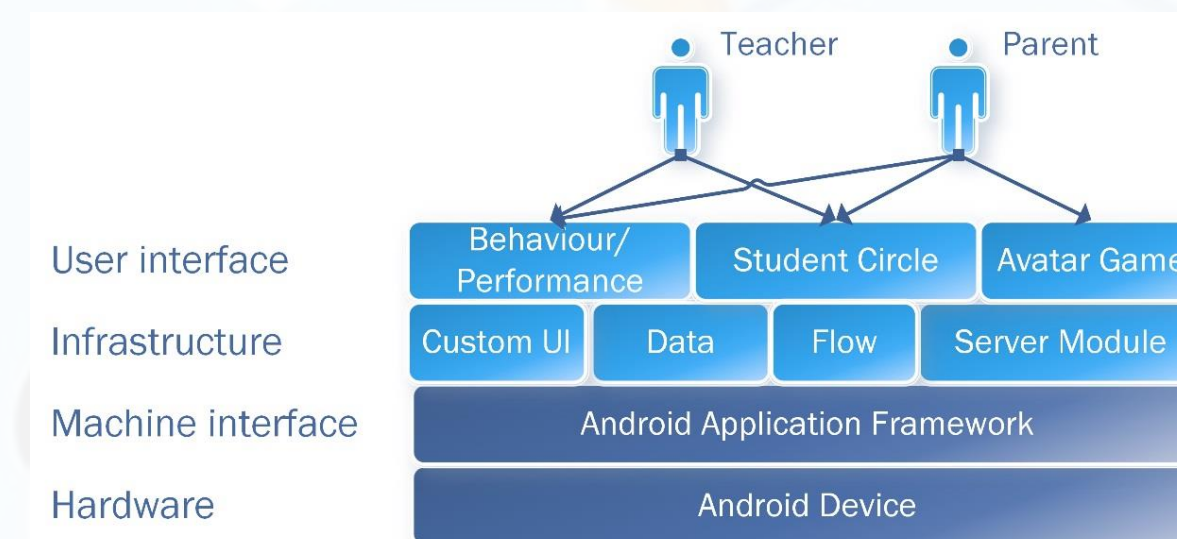
Student Circle - Parents and teachers can create posts in the Student Circle. These posts can be viewed and liked by other members in the class.

Behaviour and Performance Management System - Parents and teachers can record and view students' good and bad behaviour and performance at home and at school.

Avatar Game - Parents and their children can interact with an avatar and nurture it together to maintain its health and happiness.

Methodology

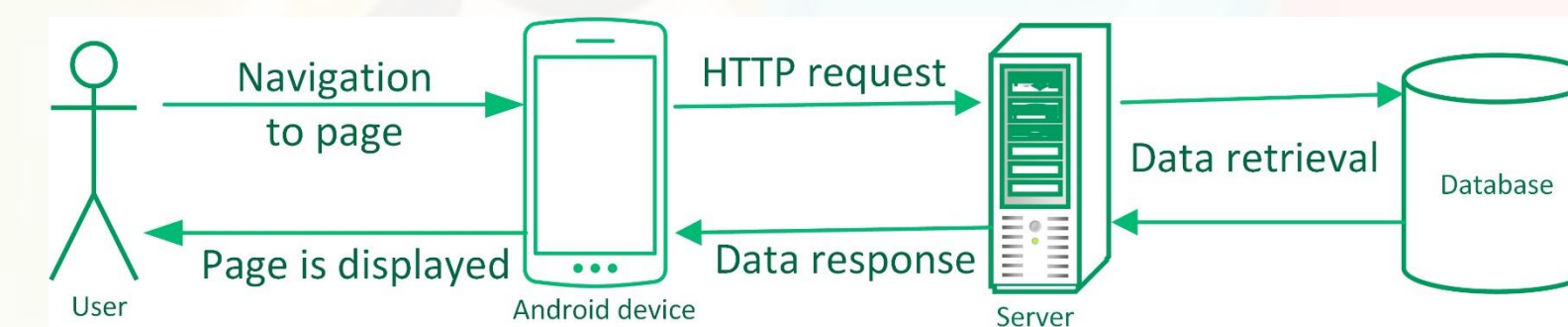
Application Architecture



The several modules that comprise the app can be categorized into two different layers: the user-facing UI layer and the infrastructure layer that supports it.

The app is native and runs on top of the Android Application Framework to allow us to take full advantage of the functionality provided by Android systems.

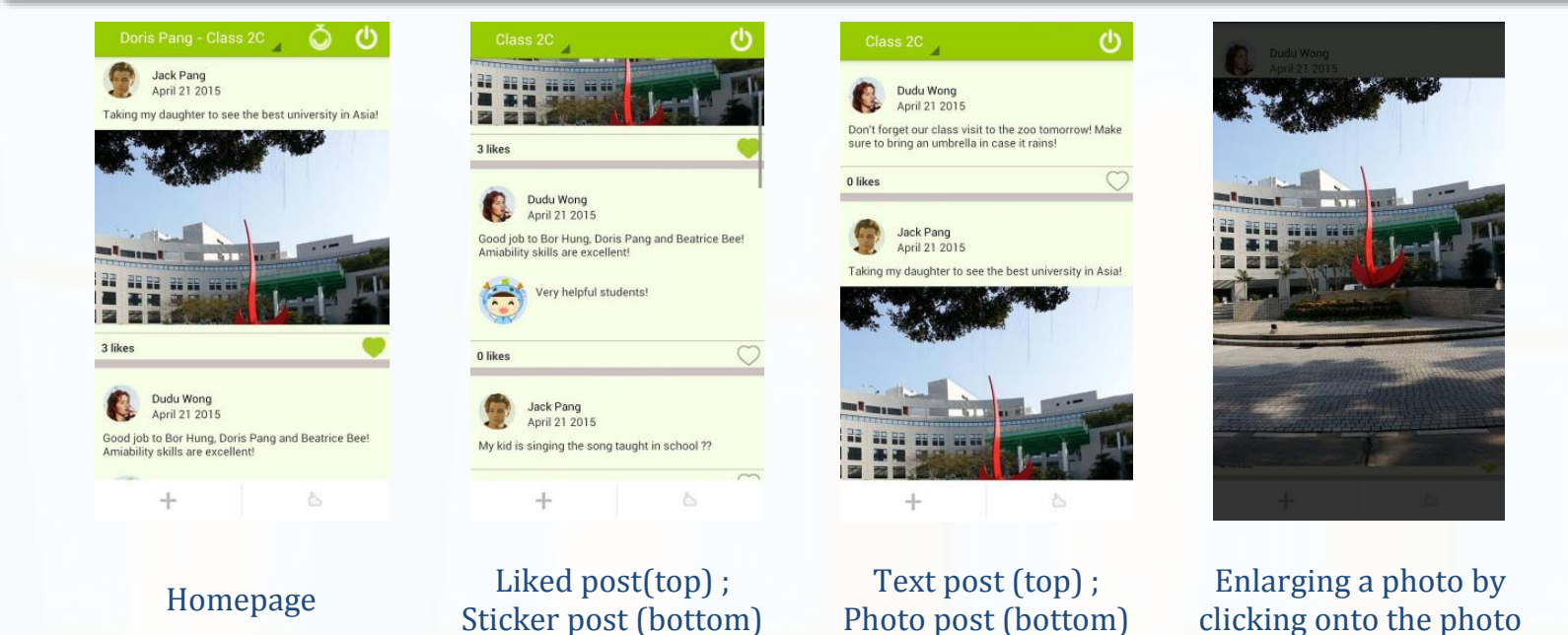
Displaying a page



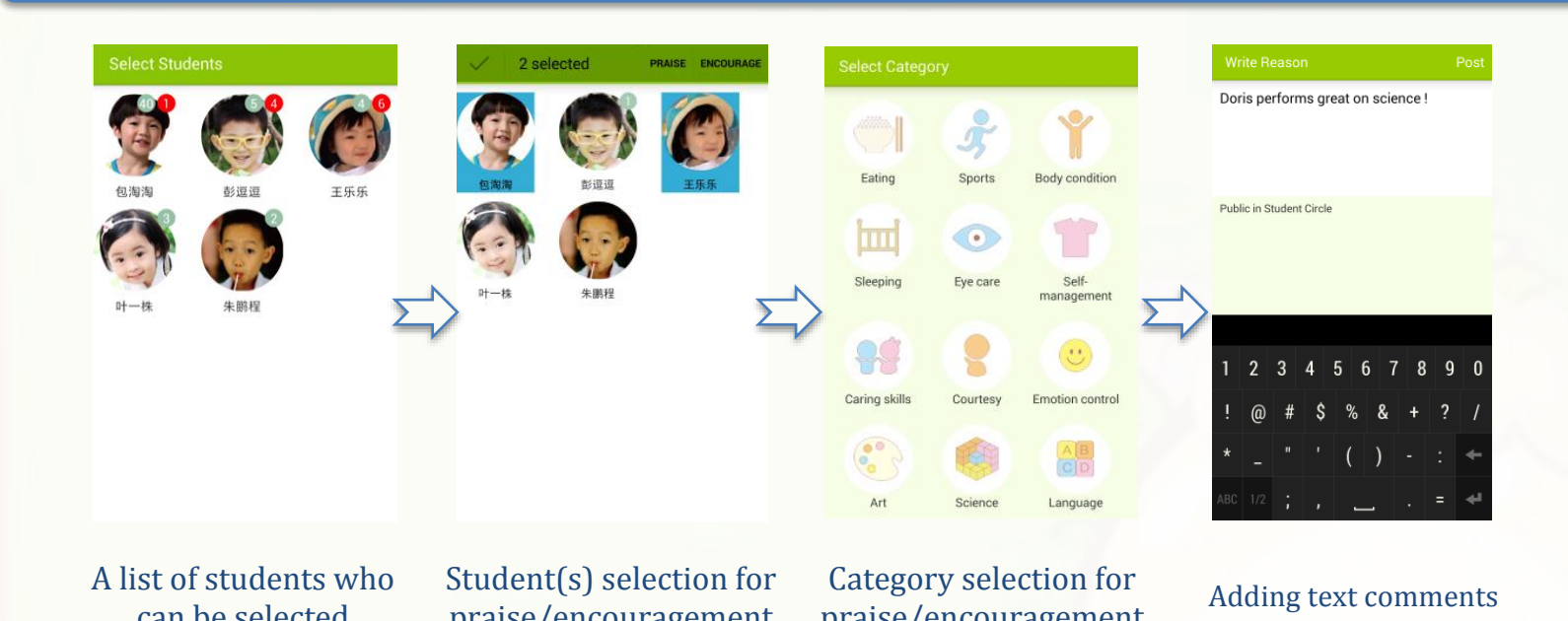
When the UI layer has interpreted a request by the user, it passes on the message to the infrastructure layer to handle the request. In most cases, the server module in the app contacts the server to request for data.

Result

Screenshots for Student Circle



Screenshots for Behavior and Performance Management



Screenshots for Avatar Game

