DB design specs

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Introduction

IPCS is an integrated platform designed to enhance the connection between parents and preschool operators in Singapore.

There are 1000 preschool operators in Singapore, including kindergartens, infant care. Etc. IPCS is to enhance the communication between parent and preschool educators by using the most advanced and convenient technology. Parents can get the most updated information about their children by smart phone.

IPCS is a web ERP system for educator to manage the student’s information and communicate with parents;

Project timeline

Business Requirements

Web end

Day 1

Each school will have one unique id as the school admin to login the web system.

Person whose role is “Admin” is allowed to login the web system and update.

Question: Peron is a staff of school. Is person allowed to be multiple schools’ admin?

OTP or other authentication;

Password authentication temporary. OTP will be implemented in future once budges allows.

Each person has it’s own role, diferent role mapped to different permission. Eg broadcast message, view schedule, update schedule

Each school can create or remove other group users (to be decided);

The person who has “Admin” role and is under certain school can remove or update all the person which has “Student” role in that school

User can manage student information after successful login;

Only user has admin rights can manager student info

Student information format

Student info saved in person\_details and person table

Name, Nick name, Gender, DOB, address

Primary contact person (name, mobile number, email)

Marketing option (for PDPA consideration)

Support batch upload by provided excel format for the first time use;

Export of student information as excel;

Send message ( including media contents, such as .jpg, video, to student Primary contact (1 to N);

Message contents will be saved in server

Receive message from student’s primary;

Mesage path saved in message tables

Broadcast ads to subscribers;

Create school’s class schedule;

Q：Schedule is mapped to school?

More like a schedule is mapped to each classroom.

Day 2

Forum

Toys exchange

E-payment for tuition fee

Mobile End (iOS and Android App)

Day 1

Able to register as user by checking the Primary contact(mobile number)

Able to auto find the user’s children and school list;

For not registred parent, allow them to choose school and send request to open;

Receive message from schools;

Able to view children’s class schedule on mobile and choose to add selected class into personal calendar;

Able to send and receive message from schools;

Feedback or contact to us

Day 2

System structure design

Functional Requirement

Non-Functional Requirements (security and performance, backup)

UI wireframe

Web end

Mobile