Interface Specification

Healthy Spine – WeChat applet

# Introduction

<Specify the aim of the document from the module’s point of view.>

This document aims to specify the user interface (UI), that will be presented to each user of the WeChat applet. As specified in Requirements Analysis , this app will have 3 different users (patients/doctors/administrators), so as a result will be design and develop 3 UI interfaces for each user.

In the next sections will be approach following matters:

* Services
* Local types
* Interface design issues
* Test cases

# Services

<Specify the services provided and/or required by the module.>

In this section will be approach the services that UI will be required and provided to each user as well as access methods.

## Services Provided

|  |  |  |
| --- | --- | --- |
| Service | Develop By | Tested By |
| User can quit the mini program | Alex |  |
| User can open the mini programs |  |  |
| User can register an account | Alex |  |
| User can log in | Gabriel |  |
| User can receive an application reminder |  |  |
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## Access Method

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| --- | --- | --- | --- | --- | --- |
| **Access Method** | **Parameter name** | **Parameter type** | **Description** | **Exceptions** | **Map to services** |
| checkOperationsRunning | operationsList | Array of operations | operationsList is an array that shows a list of operations running. |  | 1 |
| stopOperationsRunning | operationsList | Array of operations | operationsList is the list return by the method checkOperationRunning. |  | 1 |
| checkDataAccount | isValidRegisterData | Boolean | isValidRegisterData is true or false value that check the format of information introduced by the user. |  | 3 |
| registerAccount | registerData | Class RegisterAccountData | registerData is an object that is required to register an account and send information to the server side. |  | 3 |
| checkDataLogin | isValidDataLogin | Boolean | isValidDataLogin is true or false value that check the format of information introduced by the user. |  | 4 |
| isLoginValid | loginData | Class LoginAccountData | loginData is an object that is required to do the login process. |  | 4 |
| checkMessagesFromDoctor | hasMessagesFromDoctor | boolean | hasMessagesFromDoctor check if the patient has unread messages from the doctor. |  |  |
| getMessagesFromDoctor | messagesFromDoctor | Array of a Class messagesFromDoctorObj | messagesFromDoctor is an array that has objects that contain the message from the doctor and also doctor information. |  |  |
| checkMessagesFromPatient | hasMessagesFromPatient | boolean | hasMessagesFromPatient check if the doctor has unread messages from the patient. |  |  |
| getMessagesFromPatient | messagesFromPatient | Array of a Class messagesFromPatientObj | messagesFromPatient is an array that has objects that contain the message from the patient and also patient information. |  |  |
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## Access Method Effects

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| **Access Method** | **Description** |
| checkOperationsRunning | When the user wants to quit the application this methods is called to notify the user if some operation is running. In this method don’t accept any parameter but return an array with operations currently running. |
| stopOperationsRunning | When some operations are running and the user agree to stop operations currently running this method is called. In this method is required a parameter that is the array returned by the method checkOperationsRunning. |
| checkDataAccount | After the user insert the data required and click submit this method is called to check if the user submitted by the user is valid, if is false don’t continue with the process of register an account and inform the user with a message. |
| registerAccount | When an account is being created and the data is already valid, this method build an object of the data that was inserted by the user and then send it to the server. |
| checkDataLogin | After the user insert and submit the data, this method is called to check the format of the data. If the data inserted is not valid the process of login stopped. |
| isLoginValid | When the user click on log in button and after the method checkDataLogin method is called and valid (true value), this method is called and build an object. After that send the object to the server side and wait for a response, if true go to the home page, if not true display a message to the user. |
| checkMessagesFromDoctor | This method is called when the patient is in home page, if the method return true will see an red dot in messages, if the method return false doesn’t appear the red dot. |
| getMessagesFromDoctor | When the patient want to consult the conversation between him and the doctor, this method is called and in the parameter of this method should be passed the information of the doctor that the patient want to see the messages, after that is done a request to the server, in response should be return an array with objects with the messages and also the doctor information. |
| checkMessagesFromPatient | This method is called when the doctor is in home page, if the method return true will see an red dot in messages, if the method return false doesn’t appear the red dot. |
| getMessagesFromPatient | When the doctor want to consult the conversation between him and the patient, this method is called and in the parameter of this method should be passed the information of the patient that the doctor want to see the messages, after that is done a request to the server, in response should be return an array with objects with the messages and also the patient information. |
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## Services Required

<Format similar to Sec. 2.1.>

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| --- | --- | --- |
| Service | Provided By | Tested By |
| User can quit the mini program | Button to quit - btQuit  checkOperationsRunning  stopOperationsRunning |  |
| User can open the mini programs |  |  |
| User can register an account | Button to register – btRegister  checkDataAccount  registerAccount |  |
| User can log in | Button to login – btLogin  checkDataLogin  isLoginValid |  |
| User can receive an application reminder | checkMessagesFromDoctor  getMessagesFromDoctor  checkMessagesFromPatient  getMessagesFromPatient |  |
| Patient can consult related information before the visit |  |  |
| Patient can upload an X-ray film |  |  |
| Patient can have an early dection |  |  |
| Patient can consult doctor questions |  |  |
| Patient can check consultation record |  |  |
| Patient can check upload record |  |  |
| Patient can check line chart |  |  |
| Doctor can check consultation list |  |  |
| Doctor can reply to patient’s message |  |  |
| Doctor can check the consultation record |  |  |
| Administrator can operate on the user information |  |  |
| Administrator can operate on the treatment record |  |  |
| Administrator can manage the algorithm |  |  |
| Administrator can backing up information |  |  |
| Administrator can restore backup |  |  |
| Administrator can export backup |  |  |

# Local Types

<Specify the data formats inside/between the module(s).>

|  |  |
| --- | --- |
| **Type** | **Value Space** |
| Identification |  |
| Command |  |

# Interface Design Issues

<Describe any design issues that arose during development. Describe the alternatives and the rationale for the alternative chosen.>

Eg. 1. Whether there is a database of email we can store all the emails there?

# Test Cases

<Characterize the expected value of the outputs over sets calls to the module.>

### T1

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| --- | --- | --- | --- | --- | --- |
| **Step** | **Description** | **Input Type/Value** | **Expected Results** | **Service** | **Preamble** |
| 1 | writeText | String | Email content is stored in parameter text and ready for the future use. |  | 1 |
| 2 | selectRecipients | array of String | Recipients list is made successfully in parameter recilist and ready for the future use. |  | 2 |
| 3 | sendEmail | String text and array of String recilist | Construct anEmail by using input text and recilist and sent anEmail to the DB of emails. |  | 3 |

### T2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step** | **Description** | **Input Type/Value** | **Expected Results** | **Service** | **Preamble** |
| 1 | readEmails |  | An array of Emails are returned. |  | 1 |