Francisco Gonçalves da Mota Longhini

Gustavo Statonato

Ken Hang

IT372 - Debugging, Maintenance, and Evolution - Maintenance Documentation

Part **1: Database Documentation**

In most of the systems that you are working in, the database is the central component that drives most of the software design and operation. It is important to have documentation of the database for the current and for the next team to use. Items to include in the database documentation:

* A block diagram of the tables and how they are related (via foreign key references)

|  |
| --- |
| **pcrepair** |
| **Id\_pcrep [int](2) primary key** |
| **name [varchar](250)** |
| **receipt [varchar](20)** |
| **price [varchar](10)** |
| **payment\_method [varchar](20)** |
| **phone [varchar](10)** |
| **email [varchar](100)** |
| **student\_id [varchar](10)** |
| **problem\_description [text]** |

* A document that lists all of the tables in the database. For every table, each column should be listed with some notes on allowed and/or sample values for each column. For example, in a user table, you may have a column called age, which is defined as an INT. In your documentation, you should provide limits for the values of age. INT can hold negative, zero, and positive values. Your age column may be an INT that holds values of 1 through 120, at least in terms of the design.

**Data Dictionary**

|  |  |  |
| --- | --- | --- |
| **Database** | **Type** | **Description** |
| **pcrepair** |  |  |
| **Id\_pcrep** | **[int](2) primary key** | **Id Auto Generated** |
| **name** | **[varchar](250)** | **User full name** |
| **receipt)** | **[varchar](20)** | **Receipt number, auto generated** |
| **price** | **[varchar](10)** | **Price** |
| **payment\_method** | **[varchar](20)** | **Payment Method, data from checkboxes (Cash, or Check** |
| **phone** | **[varchar](10)** | **User phone number** |
| **email** | **[varchar](100)** | **User email** |
| **student\_id** | **[varchar](10)** | **User student ID** |
| **problem\_description** | **[text]** | **PC problem description, consists in data from checkboxes (Slow Performance, malware/virus, software or hardware issues) and data from a textarea with problem description** |

* Either a listing of the CREATE TABLE script(s) or a reference as to where someone can find the CREATE TABLE script along with a script to INSERT some sample data.

**Script**

CREATE TABLE IF NOT EXISTS `pcrepair` (

`id\_pcrep` int(2) auto\_increment primary key NOT NULL,

`name` varchar(250) COLLATE utf8\_unicode\_ci NOT NULL,

`receipt` varchar(20) COLLATE utf8\_unicode\_ci NOT NULL,

`price` varchar(10) COLLATE utf8\_unicode\_ci NOT NULL,

`payment\_method` varchar(20) COLLATE utf8\_unicode\_ci NOT NULL,

`phone` varchar(10) COLLATE utf8\_unicode\_ci NOT NULL,

`email` varchar(100) COLLATE utf8\_unicode\_ci NOT NULL,

`student\_id` varchar(10) COLLATE utf8\_unicode\_ci NOT NULL,

`problem\_description` text COLLATE utf8\_unicode\_ci NOT NULL

) ENGINE=InnoDB AUTO\_INCREMENT=1 DEFAULT CHARSET=utf8 COLLATE=utf8\_unicode\_ci;

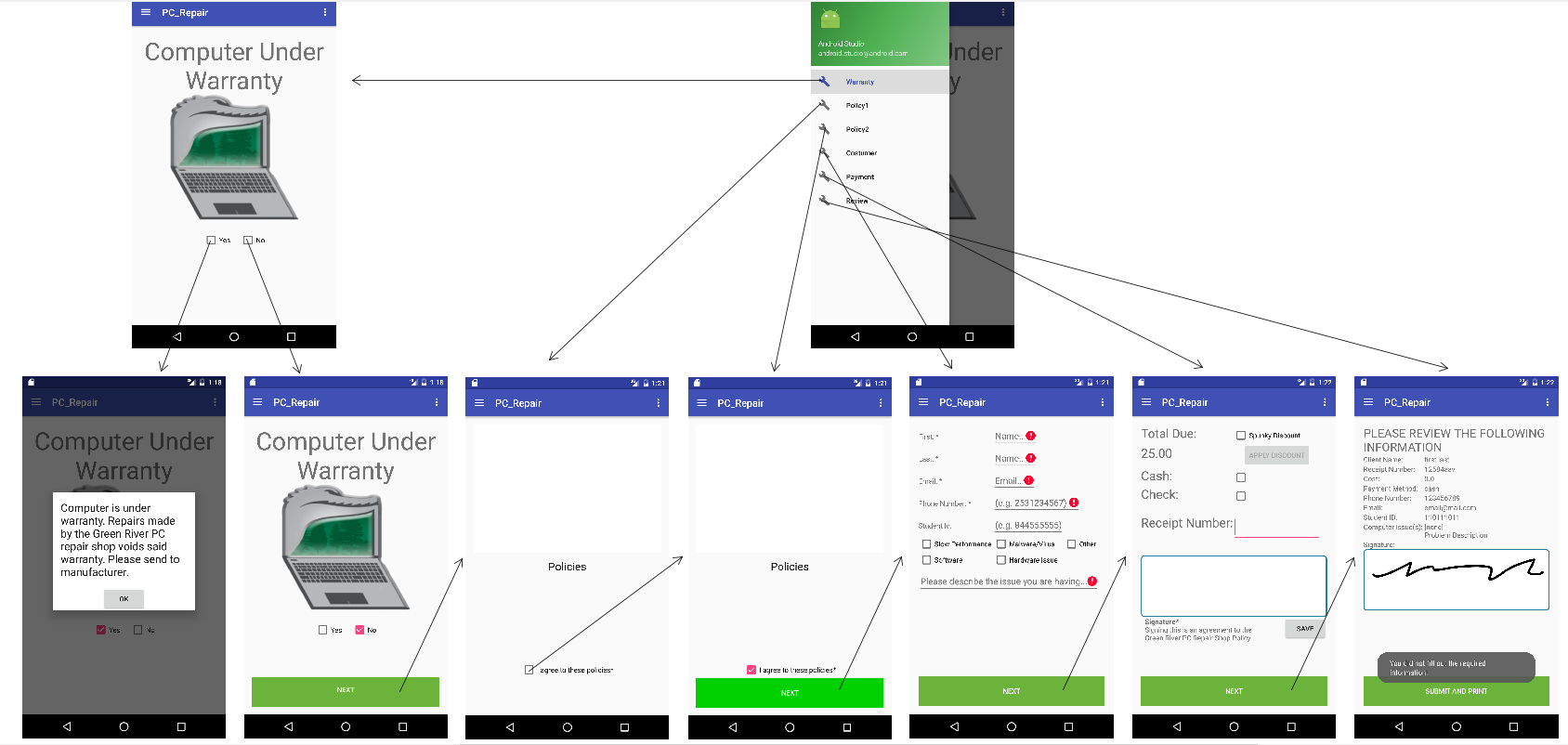
Dumping data for table `pcrepair`

INSERT INTO `pcrepair` (`id\_pcrep`, `name`, `receipt`, `price`, `payment\_method`, `phone`, `email`, `student\_id`, `problem\_description`) VALUES ( 'John Doe', '', '25.00', 'cash', '2534578907', johndoe@gmail.com', '844924566', 'Malware');

**Part 2: Script/Code Documentation**

For a web application, you will want to include two major items:

* A page flow diagram that shows how users can navigate the site, starting from the index page.



* A document that lists all of the script files, and for each file provide some sort of description as to what the file is responsible for doing. You may also want to include in your documentation the functions or methods that are included within each file.

**Class List:**

* **Java Class:**
* **MainActivity.java:** Class used for data manipulation, contains methods set and get.
* **CustomerInfo\_Frag.java:** Class used for creation of User and data linked to Customer\_layout.xml.
* **MyAlertDialogFragment.java:** Class used to alert when the manufacturer's warranty is valid, linked to Warranty\_alert.xml.
* **Payment\_Frag.java:** Class used for creation of payment data, linked to Payment\_layout.xml.
* **Policy1\_Frag.java:** Class used for confirmation of policy 1, linked to Policy1\_layout.xml.
* **Policy2\_Frag.java:** Class used for confirmation of policy 2, linked to Policy2\_layout.xml.
* **Review\_Frag.java:** Class used for confirmation of data and send the data to server and database, linked to Review\_layout.xml.
* **Warranty\_Frag.java:** Class used for creation manufacturer warranty screen, linked to Warranty\_layout.xml.

**Layout XML**

All xml files below is used for the creation of the layout of the views and linked to each of the source codes.

* **App\_bar\_main.xml:** Create layout of the application bar. (automatically generated);
* **Content\_main.xml;**
* **Customer\_layout.xm;**
* **Nav\_header\_main.xml:** Create layout of the navigation bar and menu;
* **Payment\_layout.xml;**
* **Policy1\_layout.xml;**
* **Policy2\_layout.xml;**
* **Review\_layout.xml;**
* **Warranty\_alert.xml;**
* **Warranty\_layout.xml;**

**Part 3: Self Documenting Code**

Follow the practices of self-documenting code as discussed in class. Use PHPDoc or JavaDoc standards if applicable. At a minimum:

* Copyright or Open Source License at the top of each .php or .java file. You may use the MIT License available here: <https://opensource.org/licenses/MIT>

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* A file/class header comment that contains the purpose of the file or class
* A method/function header comment above each method or function definition
* Inline comments as needed
* Well-named functions/methods, variables
* No magic numbers, no magic strings - use named constants

All above is in the code.

All of this should be committed to your GitHub repository. You will submit a link to your GitHub repository where I can find all of your code and your documentation.

Github link: <https://github.com/GustavoStatonato/PC_Repair>