The following units wer

CCIDX1234

CCIDX1235

CCIDX1236

CCIDX1237

CCIDX1238

NEXT

Payment Expert

Enter your authorisation code
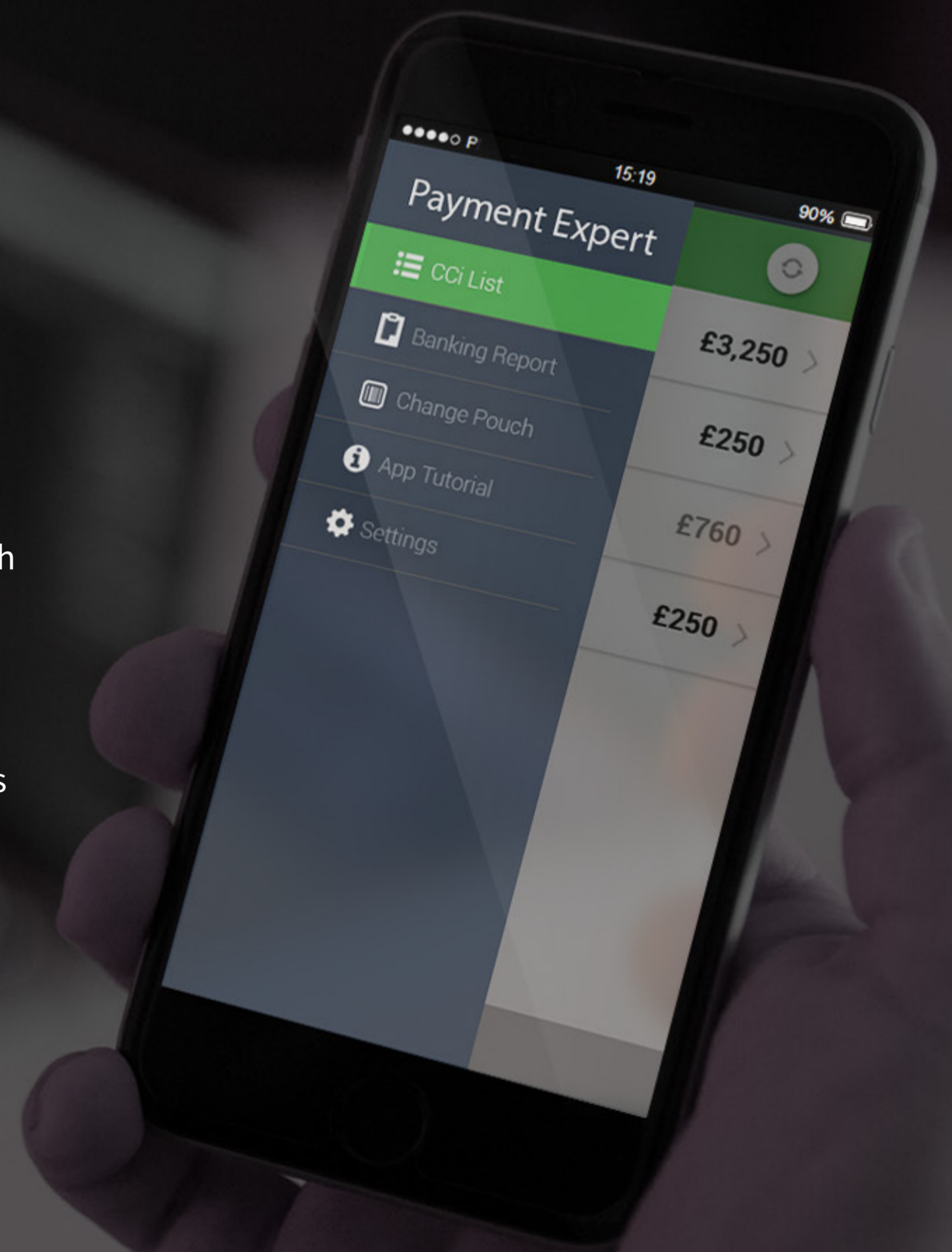below to get started

Authorisation Code

CCI

AUTHORISE

Payment Expert

Project Description

It is a service, or rather the project that belongs to the category of IOT (Internet Of Things). The purpose of this application is to help the end users to save a lot of time, as they do not need to open the cash desk for immediate checking the actual amount of money. Instead, the application automatically reads the data from a device using Bluetooth technology, and provides the end users with the data in a convenient format, automatically creates and sends the bank statements, but most importantly, it warns the administration of stores or cash collectors about the suspicious activity of cash desk in order to prevent the unwanted loss of money or break-ins.
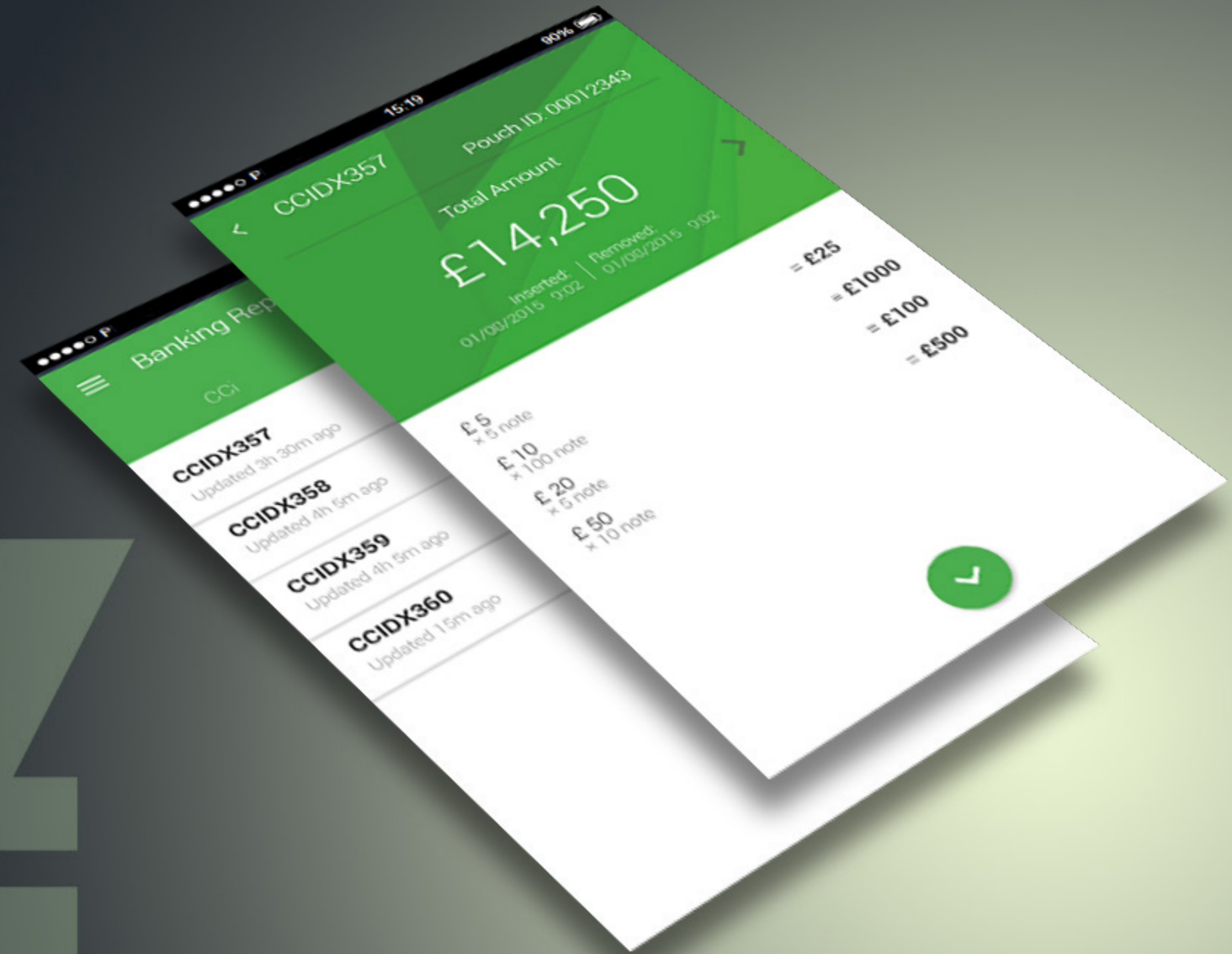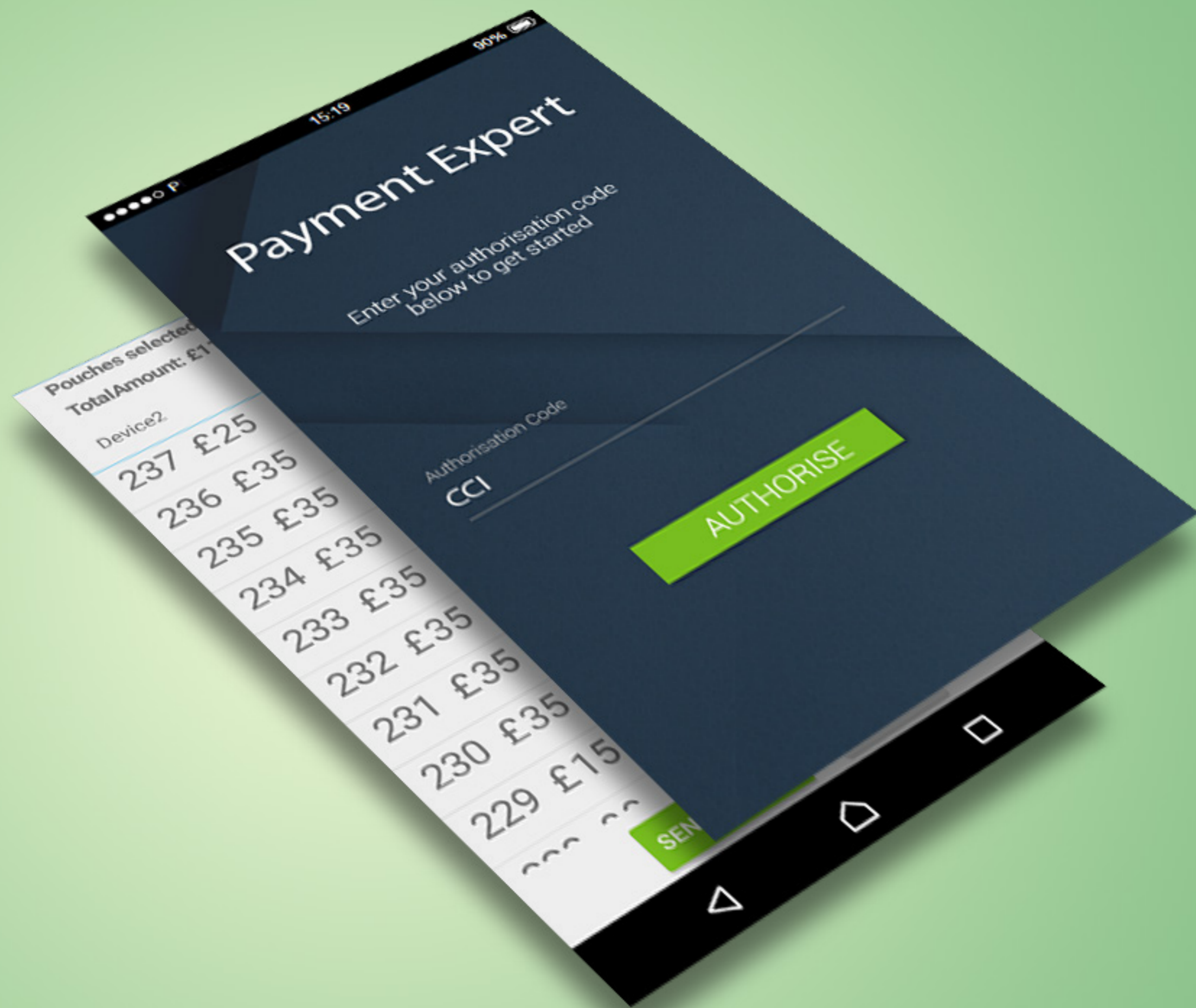
Project Features

- Ability to view the data of the current cash desk in a convenient format: the total amount of money, the denomination type and its multiplier (for the current bank bag), etc.

- Ability to view the history of the previous cash desk data (the aforementioned information).

- Finding the extracted bank bags and forming the bank reports based on the received data.

- Warning about the suspicious cash activity to prevent the theft made by the store employees.

- In the application context, to manage the devices (cash desks) by means of Bluetooth, rename and do other operations, without having to go into the settings of Bluetooth.

- The application access protection with the help of the pin code protection.

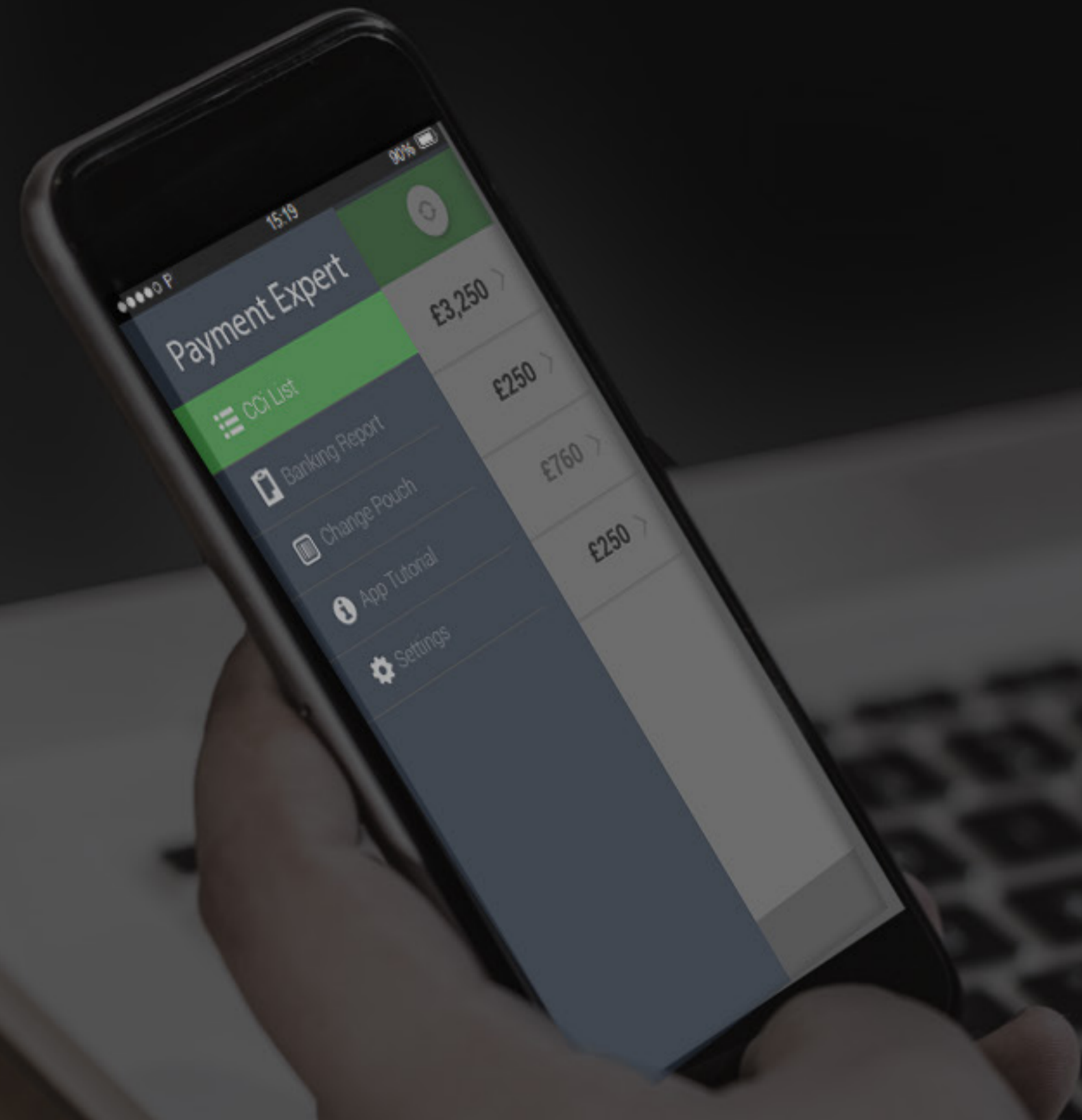- Apps Sync with Web-Service for the access control of the current user.

Project Challenges

- Low-level protocol of communication with the devices implementation.

- Continuous Apps Sync with Web-Service to control the access rights to the application.

Project Solution

- Getting the maximum abstraction of a low-level protocol, so now it is possible to quickly and conveniently receive the human-readable data.

- Acceleration of data acquisition through the introduction of multi-threading into the system.

- Optimization of data acquisition in a way that it is not necessary to update all the data over and over again but just only those data that can actually be updated has increased the application performance by 4 times.

- An intelligent system of work with the data storage was written, so the application works efficiently with the data saving them into memory when the application runs in the background, thereby reducing the number of database requests, and saving the data in case of need to restore them in the following sessions.

Project Technology

- C# (CSharp)
- Xamarin.Android
- Xamarin.Forms
- iTextSharp
- Sqlite Orm
- RestSharp