



Superski

Skipass with NFC cards

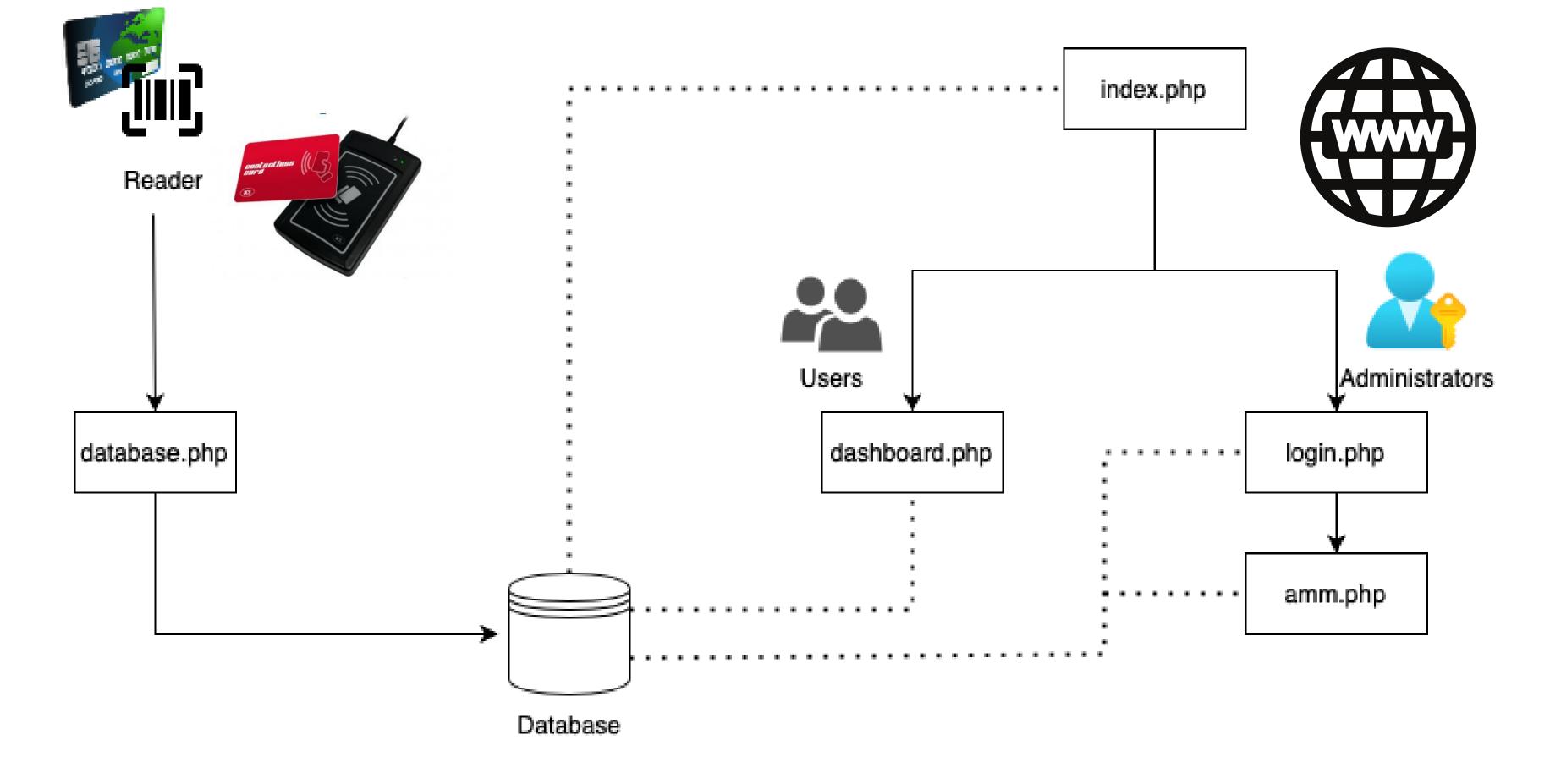
Nicola Turniano - Gabriele Fasoli

Introduction

Main goal:

- emulate a ski area with NFC cards as skipass
- permit the users to access to personal performances

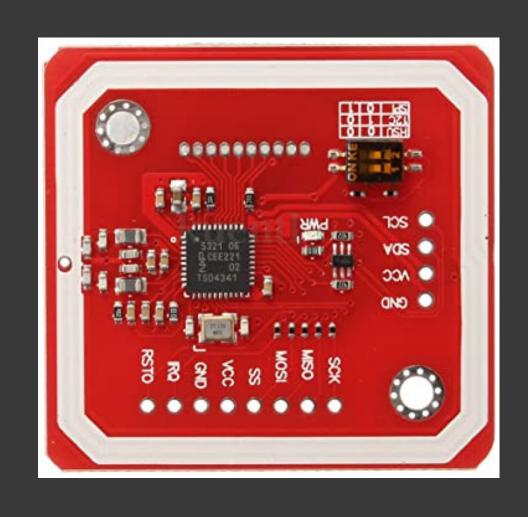




Project summary

Hardware







ESP-32 PN532 NFC Reader Cables

foto del progetto

Wi-Fi connection

Enable communication between ESP32 and Internet.

■ NFC Reader

Activate the reader and wait for a card.

Send to Database

Send the ID of the read card to DB and store it.

Software



```
void setup() {
   // initialize digital pin LED_BUILTIN as an output
   pinMode(LED_BUILTIN, OUTPUT);
}

// the loop function runs over and over again forew
void loop() {
   digitalWrite(LED_BUILTIN, HIGH); // turn the LEI
   delay(1000); // wait for a :
   digitalWrite(LED_BUILTIN, LOW); // turn the LEI
   delay(1000); // wait for a :
```



```
286 * @param array
288 * @param Hodel remain
289 * greturn void
290 */
291 protected function
292
293 $destination * if (! is direction
295 if (! is direction
297 redirection
298 }
299
300 $uniq_name
301
302 $path_fullsian
303 $path_tumbanal
304
305 // Resize and
306 $image * resize and
307
208
```



XAMPP Control Panel v3.2.2 [Compiled: Nov 12th 2015] XAMPP Control Panel v3.2.2 J Config Modules Netstat Service Shell Apache Config Logs MySQL Config Logs Explorer Logs Services Mercury Logs Logs Quit Initializing Control Panel Windows Version: Windows Server 2012 R2 64-bit XAMPP Version: 5.5.30 3:47:46 PM [main Control Panel Version: 3.2.2 [Compiled: Nov 12th 2015] Running with Administrator rights - good! 3:47:46 PM [main] 3:47:46 PM [main] XAMPP Installation Directory: "c:\xampp5.6\" 3:47:46 PM [main] Checking for prerequisites 3:47:46 PM [main] All prerequisites found Initializing Modules

Arduino code for ESP32

PHP, HTML, CSS, JS

XAMPP (Web server, DB)

Skiers dashboard

Ski Center Latemar

Home

CanvasJS.com

4.0 km percorsi

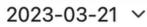
4 impianti totali

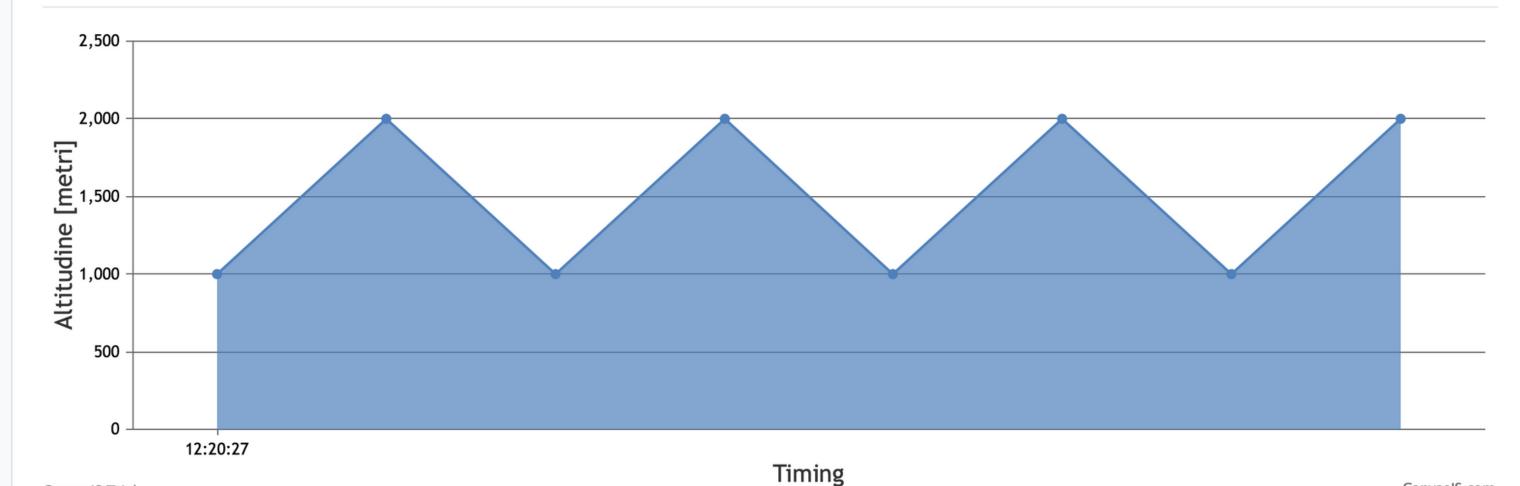
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4000 dislivello totale





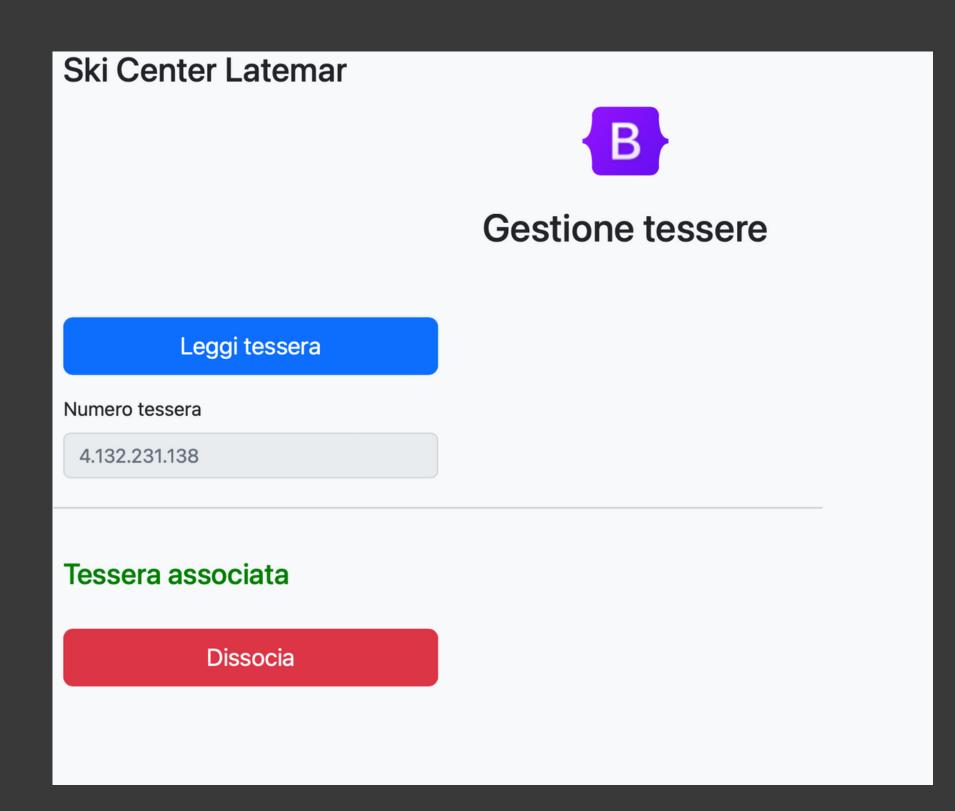


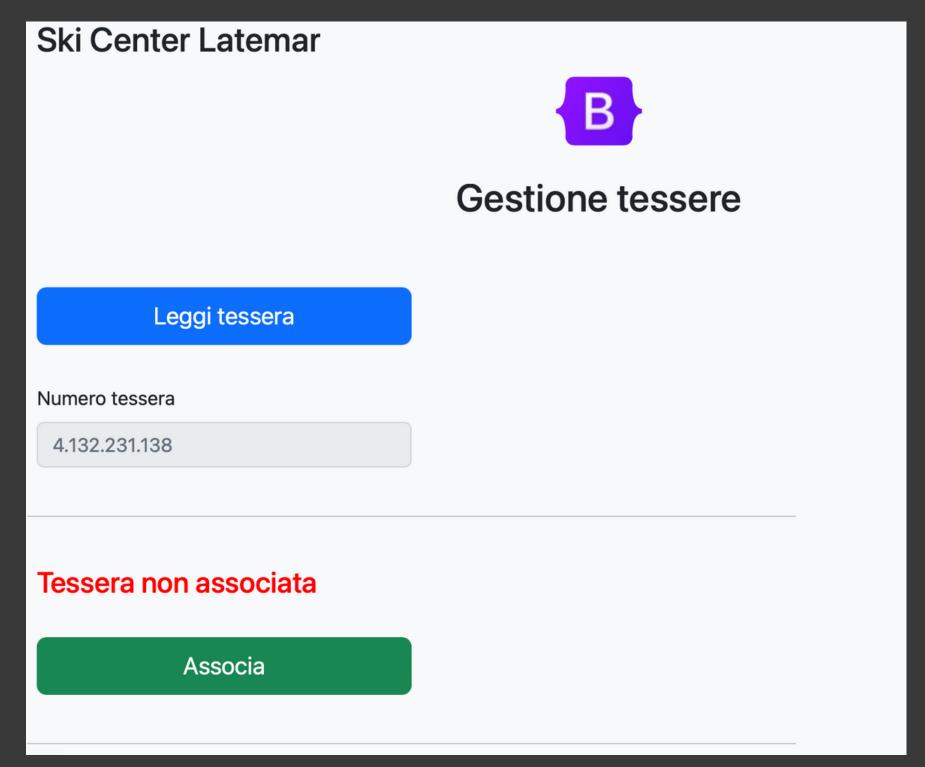


CanvasIS Trial

Elenco impianti del giorno 2023-03-21

Ora	Impianto
12:20:27	seggiovia 1
15:23:43	seggiovia 1
16:20:11	seggiovia 1
16:23:28	seggiovia 1





Administrators area

Problems faced

• Understand the communication between ESP32 and Reader

• First reader not working

• Choose the best functioning hardware







