Design and Development of Secure Software

DESIGN AND DEVELOPMENT OF SECURE SOFTWARE

Support to Assignment #2

2018/2019
Masters in Informatics Security
DEI-UC

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GITHUB REPOSITORY

https://github.com/msi-ddss/ddss2018

- The examples available in the repository already contain the database configured and ready to use

- They also contain examples of code on how to perform simple queries in the database

- **If you opt by using those examples, you do not need these slides…**

SQLITE ON JAVA

1. Add the required libraries to the project
   - Not using maven:
     - Download jdbc driver: https://bitbucket.org/xerial/sqlite-jdbc/downloads
     - Add it to your project
   - Maven: just add the dependence
2. Find 2018_ddss_assignment2.db in the materials
   - Contains 3 tables: users, messages and books
   - Copy the file to a new folder in the project
     - Keep the original somewhere for backup
   - Use the lines of code below to create a connection

```
Class.forName("org.sqlite.JDBC");
connection = DriverManager.getConnection("jdbc:sqlite:" + DB_FILE_ABSOLUTE_PATH);
```

SQLITE ON PHP

- SQLite3 extension is enabled by default as of PHP 5.3.0
  - http://php.net/manual/en/book.sqlite3.php

- Example
  - From: http://php.net/manual/en/sqlite3.query.php

```php
<?php
    $db = new SQLite3(DB_FILE_ABSOLUTE_PATH);
    $results = $db->query('SELECT bar FROM foo');
    while ($row = $results->fetchArray()) {
        var_dump($row);
    }
?>
```

DATABASE TABLES

- user: nuno, pass: nunopass

- Passwords hashed with SHA-256(saltpasspepper)
  - pepper: ddss_peper
  - https://blog.filippo.io/salt-and-pepper/
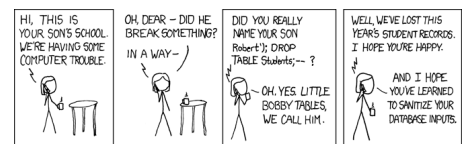

QUESTIONS?

http://xkcd.com/327/

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