**SI3PSI – Tim Slackeri**

**Specifikacija baze podataka**

**Za projekat psi-team-hub**

Verzija V 1.0

Datum: 05.06.2016

Istorija izmena

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| Revizija | Datum | Autor | Opis |
| Verzija V 1.0 | 05.06.2016 | Jovan Djukic |  |

# Uvod

## Namena

Baza podataka za projekat iz predmeta SI3PSI predstavlja fleksibilan i pouzdan nacin cuvanja podataka i pristupa istim od strane web servera radi generisanja web stranica. U dokumentu su dati opisi tabela u bazi podataka. Zbog broja tabela IE model je priložen kao slika. Ovaj dokument služi kao osnova za razvoj detaljne projektne specifikacije posmatranog podsistema, implementaciju i testiranje.

## Organizacija dokumenta

Ostatak dokumenta organizovan je u sledeca poglavlja:

1. Tabele – spisak tabela

## 1.3 Otvorena pitanja

|  |  |  |
| --- | --- | --- |
| Broj | Datum | Problem/Rešenje |
|  |  |  |
|  |  |  |

# Tabele

U svakoj tabeli postoje polja CREATED\_AT I UPDATED\_AT tipe TIMESTAMP. Ova polja koristi radni okvir I belezi kada smo ubacili red u baza I kada smo ga izmenili.

## 2.1 Users

Sadrži zajedničke podatke o svim korisnicima aplikacije. IMAGE\_ID polje upucuje na opcionu sliku korisnika. REMEMBER\_TOKEN sluzi za pamcenje sesije.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| NAME | VARCHAR(255) | - | NOT NULL |
| EMAIL | VARCHAR(255) | - | NOT NULL, UNIQUE |
| PASSWORD | VARCHAR(255) | - | NOT NULL |
| REMEMBER\_TOKEN | VARCHAR(100) | - | - |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| IMAGE\_ID | UNSIGNED INTEGER | FK | UNIQUE |

## 2.2 Admins

Ova tabela sluzi da bi se zapamtili aktivni administratori.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| USER\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |

## 2.3 Asisstants

Ova tabela cuva potrebne podatke za aktivne asistente.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| USER\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |

## 2.4 Students

Ova tabela cuva potrebne podatke za aktivne studente. TEAM\_ID upucuje na tim kome ovaj student pripada. IS\_LEADER govori da li je dati student vodja tima.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| USER\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| TEAM\_ID | UNSIGNED INTEGER | FK | UNIQUE |
| IS\_LEADER | BOOLEAN | - | - |

# 2.5 Teams

Ova tabela cuva potrebne podatke za aktivne timove. IMAGE\_ID polje ukazuje na opcionu sliku tima.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| NAME | VARCHAR(255) | - | NOT NULL |
| PROJECT\_NAME | VARCHAR(255) | - | NOT NULL |
| DESCRIPTION | VARCHAR(255) | - | NOT NULL |
| CREATION\_DATE | DATETIME | - | - |
| IMAGE\_ID | UNSIGNED INTEGER | FK | UNIQUE |

## 2.6 Images

Ova tabel sluzi za cuvanje slika korisnika ili timova. IMAGEABLE\_ID I IMAGEABLE\_TYPE sluze za dohvatanje vlasnika date slike. Tip upucuje na tim ili korisnika, id upucuje da odgovarujic red.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| IMAGE | VARBINARY | - | NOT NULL |
| IMAGEABLE\_ID | UNSGINED INTEGER | - | NOT NULL, UNIQUE |
| IMAGEABLE\_TYPE | VARCHAR(255) | - | NOT NULL |

## 2.7 Roles

Ova tabela cuva potrebne podatke o svim mogucim specijalnostima studenata.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| NAME | VARCHAR(255) | - | NOT NULL |
| DESCRIPTION | VARCHAR(255) | - | NOT NULL |

## 2.8 Role\_Student

Ovo je vezna tabela koja nam govori koji student poseduje koju specijalnost.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| ROLE\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| STUDENT\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |

## 2.9 Role\_Team

Ovo je vezna tabela koja nam govori koje specijalnosti su potrebne datom timu za realizaciju pojekta.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| ROLE\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| TEAM\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |

## 2.10 Requests

Ova tabela sluzi za pamcenje zahteva. STUDENT\_ID nam govori koji student je pokrenuo zahtev. REQUSTABLE\_ID I REQEUSTABLE\_TYPE nam govore o kom tipu I kom konkretnom zahtevu se radi.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK | NOT NULL, UNIQUE, AUTOINCREMENTS |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| STATUS | VARCHAR(255) | - | NOT NULL |
| STUDENT\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| REQUESTABLE\_ID | UNSIGNED INTEGER | - | NOT NULL, UNIQUE |
| REQUESTABLE\_TYPE | VARCHAR(255) | - | NOT NULL |

## 2.11 Joins

Tabela sadrzi sve zahteve za uclanjenje u tim. TEAM\_ID na govori o kom timu se radi.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| REQUEST\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| TEAM\_ID | USIGNED INTEGER | FK | NOT NULL, UNIQUE |

## 2.12 Invites

Tabela sadrzi podatke o zahtevi za uclanjenje u time. STUDENT\_ID na govori koji student se poziva da se uclani u tim.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| REQUEST\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| STUDENT\_ID | USIGNED INTEGER | FK | NOT NULL, UNIQUE |

## 2.13 Kicks

Tabela sadrzi podatke o zahtevima za izbacivanje iz tima. STUDENT\_ID ukazuje na studenta koji se izbacuje. Za izbacivanje se glasa pa NUM\_VOTED sluzi da bi vodili evidenciju o tome.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| REQUEST\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| STUDENT\_ID | USIGNED INTEGER | FK | NOT NULL, UNIQUE |
| NUM\_VOTED | INTEGER | - | - |

## 2.14 LeaderChanges

Tabela sadrzi podatke o zahtevima za promenu vodje u timu. STUDENT\_ID nam govori koji student se nominuje za vodju. Za promenu vodje se glasa pa NUM\_VOTED sluzi da bi vodili evidenciju o tome.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| REQUEST\_ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| STUDENT\_ID | UnSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| NUM\_VOTED | INTEGER | - | - |

## 2.15 Votes

Za zahteve za izbacivanje I promene vodje se glasa. Ova tabela na omogucava da vodimo evidenciju o tome.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| REQUEST\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| STUDENT\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |

## 2.16 Notifications

Ova tabela sluzi za pamcenje obavestenja vezana za zahteve (da li su prihvaceni, odbijeni itd…).

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| ID | UNSIGNED INTEGER | PK/FK | NOT NULL, UNIQUE |
| CREATE\_AT | TIMESTAMP | - | - |
| UPDATED\_AT | TIMESTAMP | - | - |
| TEXT | VARCHAR(255) | - | NOT NULL |
| SEEN | BOOLEAN | - | - |
| INFO\_ONLY | BOOLEAN | - | - |
| STUDENT\_ID | UNSIGNED INTEGER | FK | NOT NULL, UNIQUE |
| REQUEST\_ID | UNSIGNED INTEGER | FK | UNIQUE |

## 2.17 Migrations

Ovu tabelu koristi framework za vodjenje evidencije o migracijama.

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Datatype | PK/FK | Additional constraints |
| MIGRATION | VARCHAR(255) | - | NOT NULL |
| BATCH | INTEGER | - | NOT NULL |