**Typy**

Trasa, Aktivita, Ulozene trasy

**Funkcie**

save\_route: Trasa -> Ulozena trasa

edit\_route: Trasa -> Trasa

download\_route: Trasa -> Ulozena trasa

delete\_route: Trasa -> Empty

accept\_route: Trasa -> Trasa

share\_route: Trasa -> Trasa

create\_route: Trasa x Aktivita -> Trasa

**Axiomy**

∀ t :Trasa, a : Aktivita, u: Ulozene trasy

A1: create\_route(t, a) = t

A1: delete\_route(t, create\_route(t, a)) = Empty

A3: save\_route(t, create\_route(t, a)) = u

A4: download\_route(t, share\_route(t)) = u

**Predpoklady**

**Nie funkcie ale stav (boolean)**

create\_route(t, a) requires route\_accepted

create\_route(t, a) requires t.start != t.end

save\_route(t) requires route\_created

edit\_route(t) requires len(a) < 5

**Opis komponentov**

Komponenty – GUI, User\_management, Route\_planner, Invitation\_management, Rating\_management, Database

Vsetky komponenty okrem Database komunikuju s GUI.

V User\_management si vie pouzivatel zobrazit informacie o profile, alebo v akych skupinach je clenom, pricom tieto data sa ziskavaju z Database a pri zobrazeni sa vyuziva GUI.

Route\_planner obsahuje hlavnu funkcionalitu systemu ako je vytvaranie tras, editovanie tras, zdielanie alebo ukladanie tras. Rovnako obsahuje informacie o trasach.

Invitation\_management je vedlajsia funkcionalita systemu, kde vedia pouzivatelia pridavat inych pouzivatelov do skupin pre trasu.

Rating\_management obsahuje hodnotenia pre trasy, activity, a zastavky. Pouzivatelia vedia hociktoru z tychto casti ohodnotit.