# Monopoly UK

## Class hrac

Atributes:

* ID:integer
* Name:string
* LiveTimeBalance: integer (volny cas)
* DoneSubjects: array
* CreditCount:integer
* Position:integer
* RoundCounter:integer

### Metods:

* GetName()
* GetLiveTime()
* AddLiveTime()
* AddSubject()
* GetCredits()
* MakeStep()
* MakeSubject()
* ChargePlayer()

## ClassCard

### Atributes

* ID:integer
* Name:string
* Type:integer ( subject / Event)
* Posititon:integer
* NextCard

### Metods

* GetType()
* GetName()

## Inherit Class Card: Class Subject

### Atributes

* Credit:Integer
* LiveTime:integer
* DoneBy:pointer player
* HomeWorkTime:integer – If done other players need to pay

### Metods

* GetOwner()
* GetLiveTime()

## Inherit Class Card: Class Event

### Atributes

* LiveTime:integer

### Metods

* ApplyOnPlayer()

## Class Board

### Attributes

* Cards:array
* Players:array
* NumberOfPlayers:integer
* NumberOfCards:integer
* PlayersTurn:pointer
* RoundLeft:integer
* ModeType()

### Metods:

* LoadCards() – from file
* LoadPlayers()
* ChooseGameType()
* StartGame()

Structure:

File1: Class Hrac

File2: Class Card, class Subject, class Event

File3: Functions for working between cards and players

File4: Class Boad – LoadCards(), LoadPlayers()

File5: StartGame()

Description:

The game mimics the well-known Monopoly, but is set in the academic environment of the UK university. Students in the game have a Live Time Balance, representing their willingness and desire to learn. Throughout the semester, this value will decrease as they complete individual subjects. A student can decide which subject to take, deducting from their Live Time Balance but earning credits. If a student lands on a field with a subject that another student already has, they must pay them for assistance with homework. Each subject has a predetermined price for the provided help. During the semester, a student can also encounter events, besides subjects, that can either help or harm them. The winner is the student who earns the most credits, only when no one has the desire to continue living.