frame

Start

+ logInAsAdministrator()
+ logInAsPlayer()

—+choose mode—

User

- name
+ username

- isUsernameUnique()
- viewPlayerListRating()

Administrator

+ addPlayer()
+ addCryptogram()
+ editCryptogram()

+add player
1   *

Player

- cryptogramRating

+ chooseCryptogram()
+ solveCryptogram()
+ seeSolvedCryptogram()

sendRating

Request list of Cryptograms

View

Update Player

add cryptogram

Solve

+resultSubmission
+cryptogramSubmitted
+cryptogramStarted

Request Rating

Database

+ player
+ cryptogram
+ cryptogramSolved
+ cryptogramSubmission
+ cryptogramStarted
+ playerRating

<<utility>>
ExternalWebService

- identifierGenerator

+ sendRating()
+ requestRating()
+ requestCryptogramList()
+ sendCryptogramList()
+ sendConfirmationMessage()

Cryptogram

- solutionPhrase
- encodedPhrase
+ identifier

+ sendResult()
+ requestIdentifier()

Update Cryptogram

Request Identifier

Send Confirmation Message