3 DB may be created in MongoDb or Mysql. No preference. Speed and stability are important.

4 DB scope is to collect and process results of online tests (sessions). Results are delivered by a bot, via api, from various chat rooms.

5 When a session (online exam) is scheduled, session data is recorded in another db. We need to import every new record from that one in real time.

6 At the end of each session (online exam) the bot will deliver the points and rank per user (Telegram ID) in connection to a session number. (API needed)

FEATURES AND LOGIC

1 students\_no under session\_results is obtained by counting all students (records) linked to the respective session\_no

2 language, session type, session number, session time, session questions under session\_results are imported from another database everytime a new record is being created there

3 student\_results will come from a bot that delivers to the db via api student username, telegram id, points obtained and rank under the respective session\_no.

4 fortuna points under students\_results are calculated by multiplying session respective record points with 0.1

5 table students\_results may reach over 100.000 records during next 12 months

7 By logic, there cannot be any duplication of same Telegram ID under the same session\_no (one record per telegram ID)

8 By logic, there cannot be a telegram ID with a higher score having a lower rank than another Telegram ID with lower score

9 Other tables / collumns / row may be added if needed

PROCESSING

1 to list all points of one Telegram ID in all sessions

2 to list all points of one Telegram ID in last day / last 7 days / last month /last three months

3 to show how many places a Telegram ID went up or down in rank compared to last day / last 7 days / last month /last three months

4 to rank all Telegram IDs based on points received in last day / last 7 days / last month /last three months

5 based on all points received by one Telegram ID in all sessions, change the title of the respective ID automatically following the logic listed under student\_titles

6 new titles have to be pushed to the bot when they appear (API). Bot must receive: how many points were reached, what title was reached, by which telegram ID, when the title was updated

7 to list the overall amount of Fortuna per each student in the same or separate table

INSTALLATION STAGES

1 db will be added to back end

2 db session\_results will be linked to fortuna.db livesessions table

3 a live session will be scheduled to see if fortuna records are auto imported