KUsistant

Release 0.1

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KUSISTANT IS A PERSONAL STUDENT ASSISTANT. IT AIMS TO HELP STUDENT MEET THEIR ACADEMIC AND PERSONAL NEEDS.

1.1 KUsistant is being developed by 4 Koç University Computer Engineering students: Alkan, Burak, Ismail and Mete. You can read below our docs for different APIs and modules.

1.1.1 Source codes

BlackBoardAPI module

```
class BlackBoardAPI.BlackBoardAPI(cookie: str)
```

Bases: object

getAllCourses()

It gets the all courses from Blackboard and returns the courses as list

Returns the courses list

Return type list

getCalendarEvents(from_date_ms, to_date_ms)

It gets the calendar events from Blackboard and returns the calendar events as JSON

Parameters

- **from_date_ms** (*str*) start date of calendar date interval
- to_date_ms (str) end date of calendar date interval

Returns the calendar events on the given interval

Return type JSON

getGrades(courseID)

It gets the grades of a certain course from Blackboard and returns the grades as list

Parameters courseID (int) – The course id for the wanted course grade

Returns the grade for given course id

Return type int

class BlackBoardAPI.**Course**(courseID, courseName, courseCode, courseSemester, courseSection)

Bases: object

```
class BlackBoardAPI.Grade(name, type, due, state, lastActivity, grade, maxGrade)
     Bases: object
     print()
DialogFlow Bridge API module
DialogFlow_Bridge_API.KUSISCookie = ''
     This is the connection between Dialogflow and KUsistant Flutter application
DialogFlow_Bridge_API.getCalendarEvents(data)
     Processes JSON from our BlackBoard API to extract calendar events
          Parameters data (JSON) – The answer from the BlackBoard API
          Returns the processed JSON with the calendar events
          Return type dict
DialogFlow_Bridge_API.getCourseGradeResult(courseId, bbCookie)
     Processes JSON from our Blackboard API to extract course grades
          Parameters
                • courseId (str) – The course id for the wanted grades
                • bbCookie (str) – The cookie for user's BlackBoard
          Returns the processed JSON with the course grades
          Return type dict
DialogFlow_Bridge_API.getGPA(data)
     Processes JSON from our BlackBoard API to extract GPA
          Parameters data (JSON) – The answer from the BlackBoard API
          Returns the processed JSON with the GPA value
          Return type dict
DialogFlow_Bridge_API.getLetterGrade(data, courseCode)
     Processes JSON from our KUSIS API to extract letter grade of given course
          Parameters
                • data (JSON) – The answer from the KUSIS API
                • courseCode (str) – The course for wanted letter grade
          Returns the processed JSON with the letter grade
          Return type dict
DialogFlow_Bridge_API.getWeatherInfo(data)
     Processes JSON returned from weather API
          Parameters data (JSON) – The answer from the OpenWeather API
          Returns the processed JSON with the max and min temperature values
```

Return type dict

```
DialogFlow_Bridge_API.processRequest(req, userID)
```

Posts request to the relevant API and processes the result.

Parameters

- **req** (*str*) The request for the API
- $\mathbf{userID}(int)$ The userID mapped to the cookies

Returns the processed JSON from the given request

Return type JSON

DialogFlow_Bridge_API.setBetweenDates()

Returns a time range between now and next 14 days in milliseconds

Returns the int pair values of now and next 14 days in milliseconds

Return type tuple

DialogFlow_Bridge_API.test()

DialogFlow_Bridge_API.webhook()

KusisAPI module

```
class KusisAPI. AcademicRecord(code, name, semester, grade, credits)
```

Bases: object

class KusisAPI.KusisAPI(cookie)

Bases: object

getGPA()

It gets the GPA from KUSIS and returns it

Returns the dictionary element mapped to GPA

Return type dict

getLetterGrades()

It gets the letter grades from KUSIS and returns the grades

Returns the letter grade records

Return type list

QuestionAnsweringModel module

QuestionAnsweringModel.predict_answer(question, context)

Predicts an answer for the given question from the context

Parameters

- **question** (*str*) The question asking to the model
- **context** (*str*) The context of the asked question

Returns the predicted answer

Return type str

main module

main.getAllCourses()

It gets the all courses from Blackboard and returns the courses

Returns the courses list

Return type JSON

main.getCalendarEvent()

It gets the calendar events from Blackboard and returns the calendar events

Returns the calendar events on the given interval

Return type JSON

main.getCourseID()

It gets the course ID of a certain course from Blackboard and returns it

Returns the dictionary element mapped to course id

Return type dict

main.getGPA()

It gets the GPA from KUSIS and returns it

Returns the GPA

Return type JSON

main.getGrade(course_id)

It gets the grades of a certain course from Blackboard and returns the grades

Parameters courseID (*int*) – The course id for the wanted course grade

Returns the grade for given course id

Return type JSON

main.getLetterGrades()

It gets the letter grades of a certain course from KUSIS and returns the grades

Returns the grade for given course id

Return type JSON

main.hello()

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