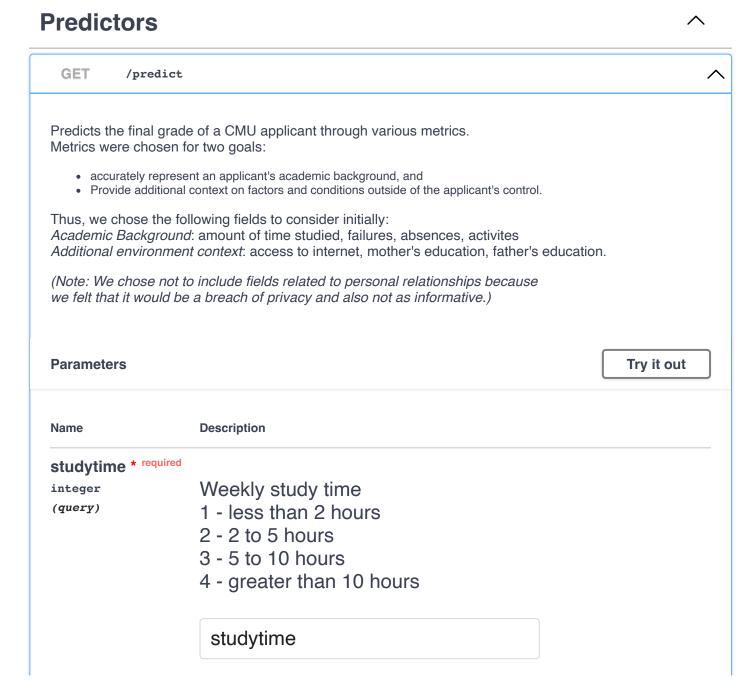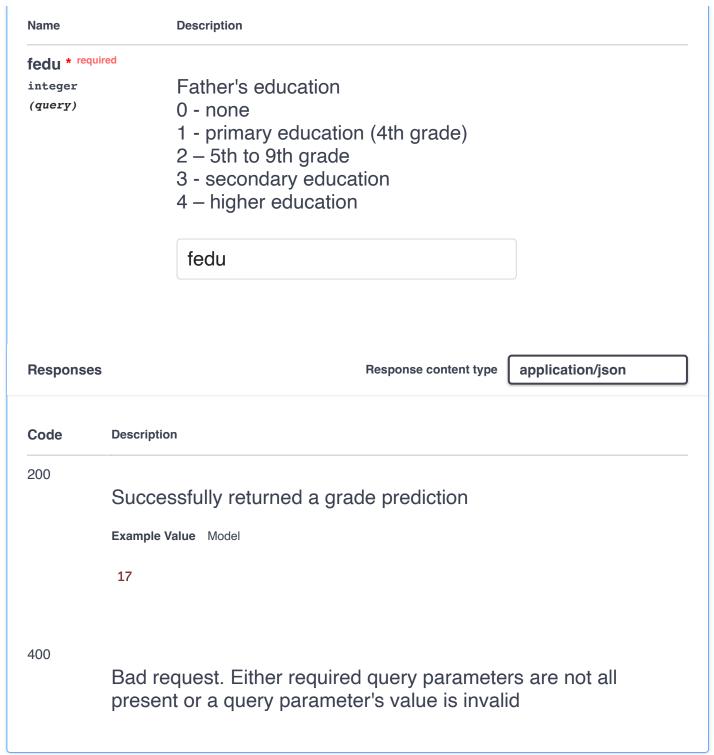 **/static/swagger.ya**   **Explore**

API for Carnegie Mellon Success Predictor 1.0.0

[/static/swagger.yaml](#)

Various endpoints for communicating with a server for predicting the success of CMU applicants

Predictors   ⌃

GET   **/predict**   ⌃

Predicts the final grade of a CMU applicant through various metrics.
Metrics were chosen for two goals:

- accurately represent an applicant's academic background, and
- Provide additional context on factors and conditions outside of the applicant's control.

Thus, we chose the following fields to consider initially:
Academic Background: amount of time studied, failures, absences, activites
Additional environment context: access to internet, mother's education, father's education.

*(Note: We chose not to include fields related to personal relationships because
we felt that it would be a breach of privacy and also not as informative.)*

Parameters   [**Try it out**]

Name	Description

studytime * required
`integer`
`(query)`
	Weekly study time
	1 - less than 2 hours
	2 - 2 to 5 hours
	3 - 5 to 10 hours
	4 - greater than 10 hours
	
	[studytime]

Name	Description

failures * required
`integer`
(query)

Number of past class failures
n if 1 <= n <= 3, otherwise 4

> failures

absences * required
`integer`
(query)

The number of absences of this applicant between 0 and 93

> absences

activities * required
`boolean`
(query)

Whether or not the applicant participates in extracurricular activities

> --

internet * required
`boolean`
(query)

Whether or not the applicant has internet access at home

> --

medu * required
`integer`
(query)

Mother's education
0 - none
1 - primary education (4th grade)
2 – 5th to 9th grade
3 - secondary education
4 – higher education

> medu

Name	Description

fedu * required

`integer`
`(query)`

Father's education
0 - none
1 - primary education (4th grade)
2 – 5th to 9th grade
3 - secondary education
4 – higher education

fedu

Responses   Response content type | application/json |

Code	Description

200

Successfully returned a grade prediction

Example Value   Model

17

400

Bad request. Either required query parameters are not all
present or a query parameter's value is invalid

Models   ∧

Grade   `integer`

minimum: 0

maximum: 20

example: 17