The job of **Module Registration** API is to take a user and an academic year and return a list of modules. Admin users can also CRUD modules.

Consider use of API key in Authorisation header (font-end server will have a hard coded API key).

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| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
| /modules  (401 if not Admin) | Return a list of modules | Create a new module | Method Not Allowed (405) | Method Not Allowed (405) |
| /module/{id}  (401 if not Admin) | Returns a specific module | Method Not Allowed (405) | Updates a specific module | Deletes a specific module |
| /modules?uid={}&year={} | Returns a list of modules from a given year that is associated with a specific user. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /module/{id}/studentlist.csv  (401 if not Admin) | Returns the CSV file | Method Not Allowed (405) | Adds/Overwrites the student list file | Method Not Allowed (405) |

Unsure of below table

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| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
| /{year}/modules | Return a list of modules | Create a new module | Method Not Allowed (405) | Method Not Allowed (405) |
| /{year}/{module code} | Returns a specific module | Method Not Allowed (405) | Updates a specific module | Deletes a specific module |
| /{year}/modules?uid={} | Returns a list of modules from a given year that is associated with a specific user. | Method Not Allowed (405) | Method Not Allowed (405) | Method Not Allowed (405) |
| /{year}/{modulecode}/students.csv | Returns the CSV file | Method Not Allowed (405) | Adds/Overwrites the student list file | Method Not Allowed (405) |

Best practices for API design: <https://blog.mwaysolutions.com/2014/06/05/10-best-practices-for-better-restful-api/>

API Authentication: <https://blog.restcase.com/4-most-used-rest-api-authentication-methods/>

The **Notifications** application will provide an API to the front-end server. The notifications component will also have to access the Message Store’s API to get messages to email.

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| --- | --- | --- | --- | --- |
| **Resource** | **GET**  read | **POST**  create | **PUT**  update | **DELETE** |
| / notificationsettings | Method Not Allowed (405) | Create a new notification settings entry | Method Not Allowed (405) | Method Not Allowed (405) |
| /notificationsettings/{id} | Returns a specific user’s notification settings | Method Not Allowed (405) | Updates a specific user’s notification settings | Deletes a specific user’s notification settings |

Thinking about where groups are stored??