

Noyo Coding Challenge

Here at Noyo we spend most of time designing and building APIs - this challenge gives you an opportunity to do just that!

The Challenge

- Create an HTTP API to perform CRUD (create, read, update, delete) actions on a **person** object
- Your API should support **object versioning** which has the following characteristics:
 - Updates to an existing object should result in a new version of the object being created
 - All versions should be accessible via the API in perpetuity
 - By default the API should return the newest version of the object
 - You can only perform Update and Delete actions on the latest version of an object
- The **person** object should have the following properties:

Name	Data Type	Required?
ID	Your Choice	X
First Name	String	X
Middle Name	String	
Last Name	String	X
Email	String	X
Age	Integer	X

- The following actions should be supported:

Action	Description
Create	Create a new person
Single Read	Fetch the latest version of a single person using their id
Versioned Single Read	Fetch a single person using their id and a specified version
Read All	Fetch a list of all persons (latest version)

Update	Update a single person using their id
Delete	Delete a single person using their id

How Long You Should Spend

- You should spend 4-5 hours working on the solution
- If you need less time that's great! Please don't spend much longer than 5 hours on your solution (we'll spend time onsite extending and discussing improvements to your solution)

Technologies to Use

- Here at Noyo we primarily use Python with Flask for web application development, if you regularly develop using Python please use it for this challenge
- If you do not regularly program using Python choose a language you are comfortable with to best showcase your talents
- Choose a datastore that you feel is appropriate for the solution (be prepared to explain your choice)

What We're Looking For

- Your solution should meet the feature requirements laid out above
- The API should provide a reasonable amount of error handling on the inputs
- We should be able to run your solution locally - consider documentation or other methods to make your code easier to run on a different machine
- Your solution should have some amount of testing