

Home Exercise

Your assignment is to implement REST API using a JAVA service, that provide cryptographic sign functionalities.

The following REST API is required:

Description	Parameters	Return Value
Generate new RSA key pair		Key ID
Delete an existing RSA key pair	Key ID	
Sign on a given data using the given key	Key ID, Data	Signature
Verify the given signature on the given data using the given key	Key ID, Data, Signature	True/False
List all existing keys IDs		List of keys IDs

Notes:

1. The service should return HTTP code for each operation
2. The service should handle errors (including bad input) and return the correct HTTP error code.
3. No need for persistency (no DB is required).