

# *NoSQLite*

## Provisional Plan



University  
of Windsor

## *Objective*

This Provisional Plan document lists the planned objective for each Sprint and Milestone for the development of project - NoSQLite. It mainly captures the division of major features into different Sprints, task assignees and tentative timelines.

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## NoSQLite

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Team – 1

Provisional Plan

Version 1.0

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### Sprint Plan

Sprint-Id	Start Date	End Date	Goals
0	24-05-2021	06-06-2021	Initial Research & Planning Project Proposal
1	07-06-2021	20-06-2021	Decide open-source APIs to integrate. Work Distribution Initial Setup
2	28-06-2021	11-07-2021	Decide Standardization Develop interface for planned standardization
3	12-07-2021	25-07-2021	Testing Performance Analysis

### Task Plan

S. No.	Task	Sub Task	Responsible	Tentative Start Date	Tentative End Date
1.	Research open-source API for MongoDB		Siddharth	09-06-2021	12-06-2021
2.	Initial Setup	Database setup – Install and run database on Linux server	Jimish, Srishti	15-06-2021	16-06-2021
		Compile and run open-source libraries for connection.	Srishti	15-06-2021	17-06-2021
		Develop code for connection to DB via Redis API	Margaret, Siddharth	14-06-2021	17-06-2021
		Develop code for connection to DB via MongoDB API	Jimish	17-06-2021	20-06-2021
3.	Decide Standardization	Decide common and unique functionalities to implement.	Srishti, Margaret	28-06-2021	28-06-2021
		Define standard for features	Jimish, Siddharth	29-06-2021	29-06-2021
4.	Develop Interface	Design Base for NoSQL DBs	Srishti	30-06-2021	30-06-2021
		Develop base for NoSQL DBs	Srishti	01-07-2021	04-07-2021
		Design Inherited Mongo-API interface	Jimish	01-07-2021	02-07-2021



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		Design Inherited Redis-API interface	Siddharth, Margaret	01-07-2021	02-07-2021
		Develop Mongo-API Interface	Jimish	05-07-2021	11-07-2021
		Develop Redis-API Interface	Siddharth, Margaret	05-07-2021	11-07-2021
5.	Testing	Design test case & plan	Margaret, Siddharth	12-07-2021	13-07-2021
		Perform Test Cases	Margaret, Jimish	14-07-2021	18-07-2021
		Bug Resolution / Maintenance	Srishti, Jimish, Siddharth	16-07-2021	20-07-2021
6.	Performance Analysis		Margaret, Srishti	21-07-2021	24-07-2021

## Milestone Plan

Date – 04<sup>th</sup> July' 2021

Target –

- Initial Setup
- Decide Standardization

## Final Release (25-07-2021)

The final release shall be a GitHub link to source code for an open-source library that will provide users a common format, unified interface, and a single point of access to multiple NoSQL databases. To use the same, a user shall compile and build the library and attach it as static or dynamic, dependent on the use case.

### Final Product Overview

For now, the interface will be only available for C++ developers which will work with MongoDB and Redis database.

- C++ Library to work with NoSQL database (MongoDB and Redis) seamlessly.
- Standard Query structure to work with NoSQL database (MongoDB and Redis).
- The interface will be containing basic CRUD operation for NoSQL Database (MongoDB and Redis).