

# Deliverable 3

## Team Information

**Team Name:** Centurion

**Project Name:** Centurion Home Control System

**Team Members:**

Andres Vargas(N01359071), Ibrahim Abdiaziz(N01394807), Zachary Symons(N01390593),  
Jonathan Alexandris (N01352690)

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## Effort

Name	id	Signature	Effort
Zachary Symons	N013905932	ZS	100%
Andres Vargas	N01359071	AV	100%
Ibrahim Abdiaziz	N01394807	IA	100%
Jonathan Alexandris	N01352690	JA	100%

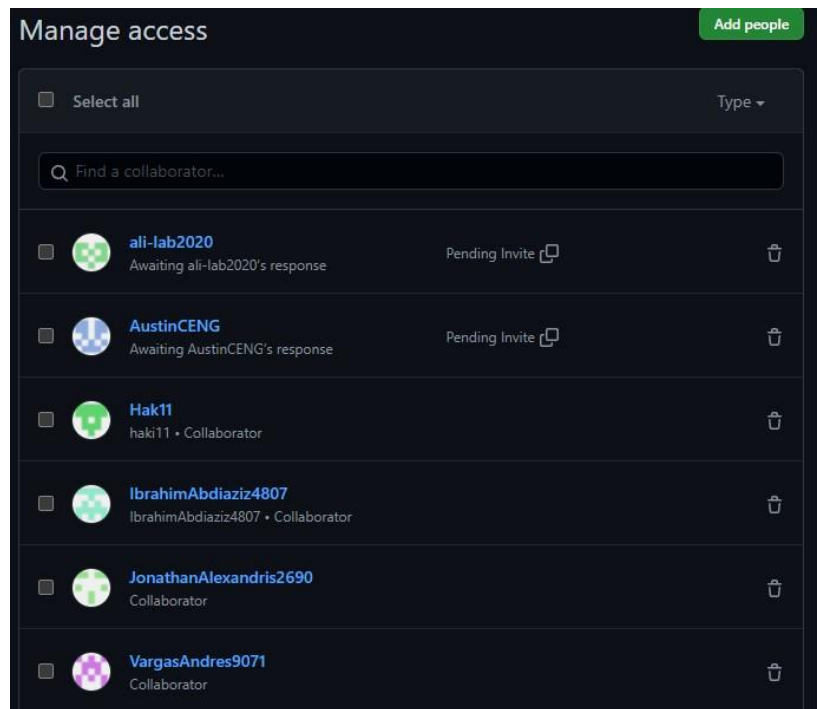
## Project Background and Description

### Goals & Vision

The goal for this app is to make an all-in-one home security system that incorporates many parts of a home. This security system will be through our app that can control all aspects of our security system from your fingertips.

## Github Link

- <https://github.com/ZacharySymons-n01390593/Centurion.git>
- We are all merging to the master branch



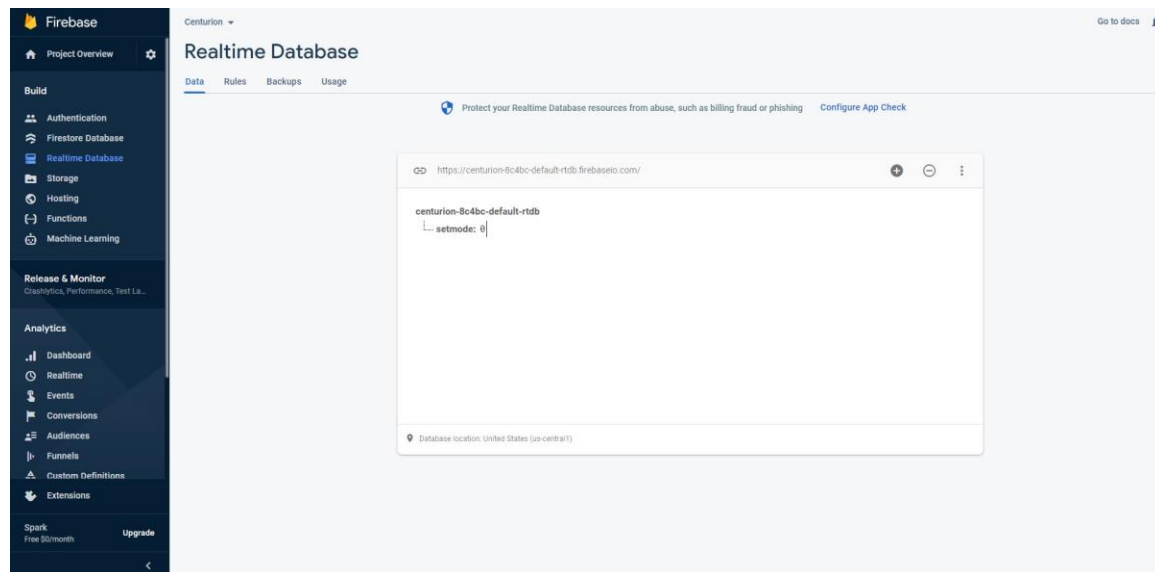
## Themes & Epics

Tasks which are marked done have had all tasks completed, and tested. Once these requirements are met they are DONE

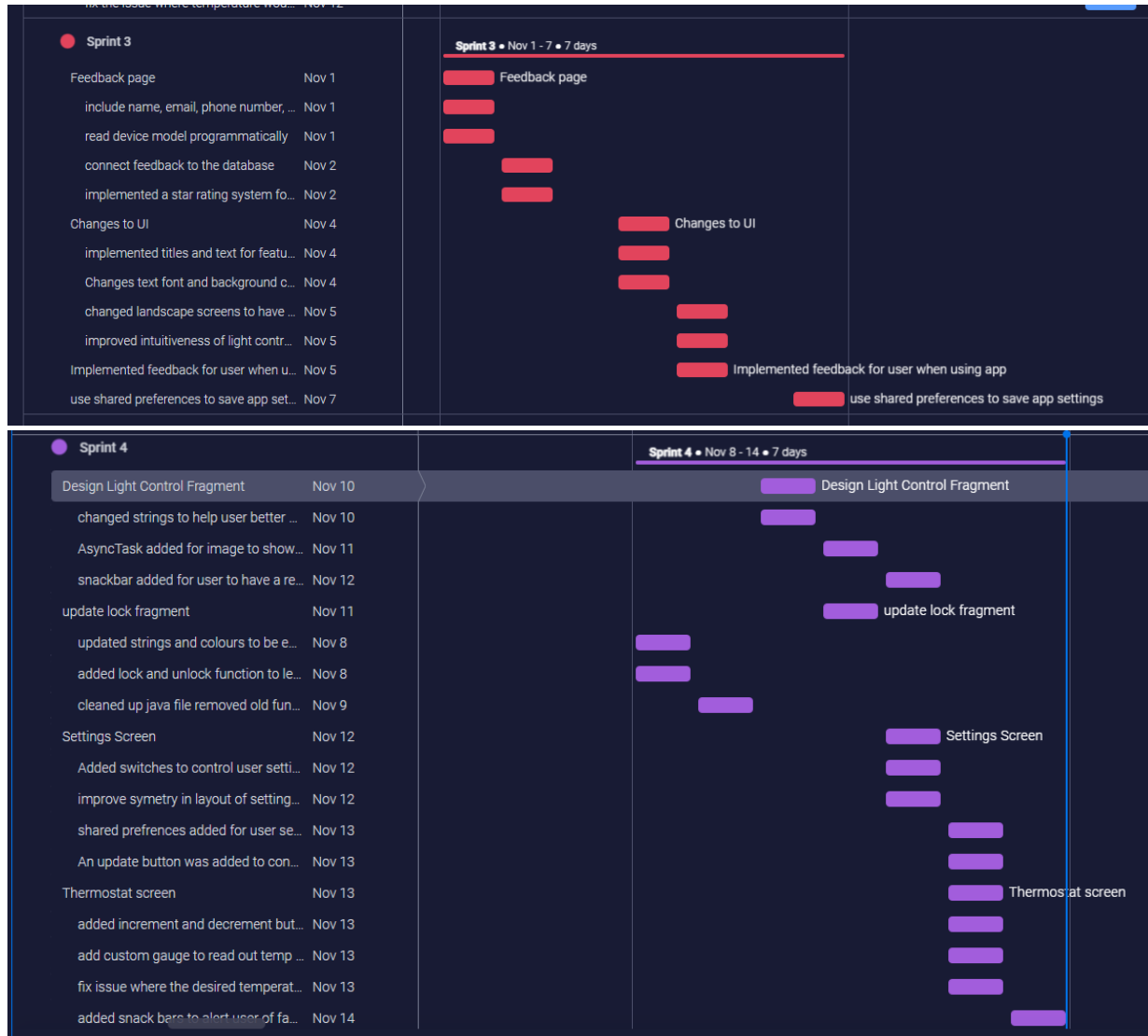
[illegible]



# Database



# Gantt Chart



# Daily Stand Up

## Daily Standup

November 8th 2021

Zachary Symons	Ibrahim Abdiaziz	Andres Vargas	Johnathan Alexandris
What did you work on yesterday? add image button to fragment edited drawerView	What did you work on yesterday? updated layout of thermostat fragment	What did you work on yesterday? translated to french	What did you work on yesterday? updated strings.xml organized project goals
What will you work on today? Add Feedback fragment Layout of feedback frag	What will you work on today? added switch for fan updated layout of thermostat fragment	What will you work on today? change horizontal layouts	What will you work on today? update UI fix portrait lock
Any Blockers? no issues	Any Blockers? no issues	Any Blockers? no issues	Any Blockers? no issues

## Daily Standup

November 10th 2021

Zachary Symons	Ibrahim Abdiaziz	Andres Vargas	Johnathan Alexandris
What did you work on yesterday? add home screen put settings in menu instead as the home screen	What did you work on yesterday? added canvasGauge to build.gradle	What did you work on yesterday? added & styled settingsFrag	What did you work on yesterday? adding options to the settings screen adding settings
What will you work on today? fixing runtime error causing app to crash organize directories	What will you work on today? improve design of thermostatFrag translating strings.xml	What will you work on today? fix user interface add to themes and styles folder	What will you work on today? adding AsyncTask to light control add spinner to light control
Any Blockers? App crashing	Any Blockers? no issues	Any Blockers? no issues	Any Blockers? lock rotation button not working properly

## Daily Standup

November 9th 2021

Zachary Symons	Ibrahim Abdiaziz	Andres Vargas	Johnathan Alexandris
What did you work on yesterday? Added Feedback fragment layout of feedbackFrag	What did you work on yesterday? added switch for fan updated layout of thermostat fragment	What did you work on yesterday? changed horizontal layouts	What did you work on yesterday? updated UI removed portrait lock
What will you work on today? add home screen put settings on the menu	What will you work on today? adding a gauge to the build.gradle	What will you work on today? added and styled settingsFrag	What will you work on today? adding options to the settings screen. adding settings to fragment
Any Blockers? no issues	Any Blockers? no issues	Any Blockers? no issues	Any Blockers? no issues

## Daily Standup

November 11th 2021

Zachary Symons	Ibrahim Abdiaziz	Andres Vargas	Johnathan Alexandris
What did you work on yesterday? reorganizing directories solved runtime error issue	What did you work on yesterday? fixing string extraction issues	What did you work on yesterday? fix user interface	What did you work on yesterday? added AsyncTask to light control updated light control with spinner
What will you work on today? Finishing Feedback page and refining output	What will you work on today? edit layout and organize drawables desired temperature functionality	What will you work on today? change the home screen	What will you work on today? make light control more intuitive
Any Blockers? getting ratingBar value to the database	Any Blockers? no issues	Any Blockers? xml for home screen had an error	Any Blockers? AsyncTask not displaying on fragment

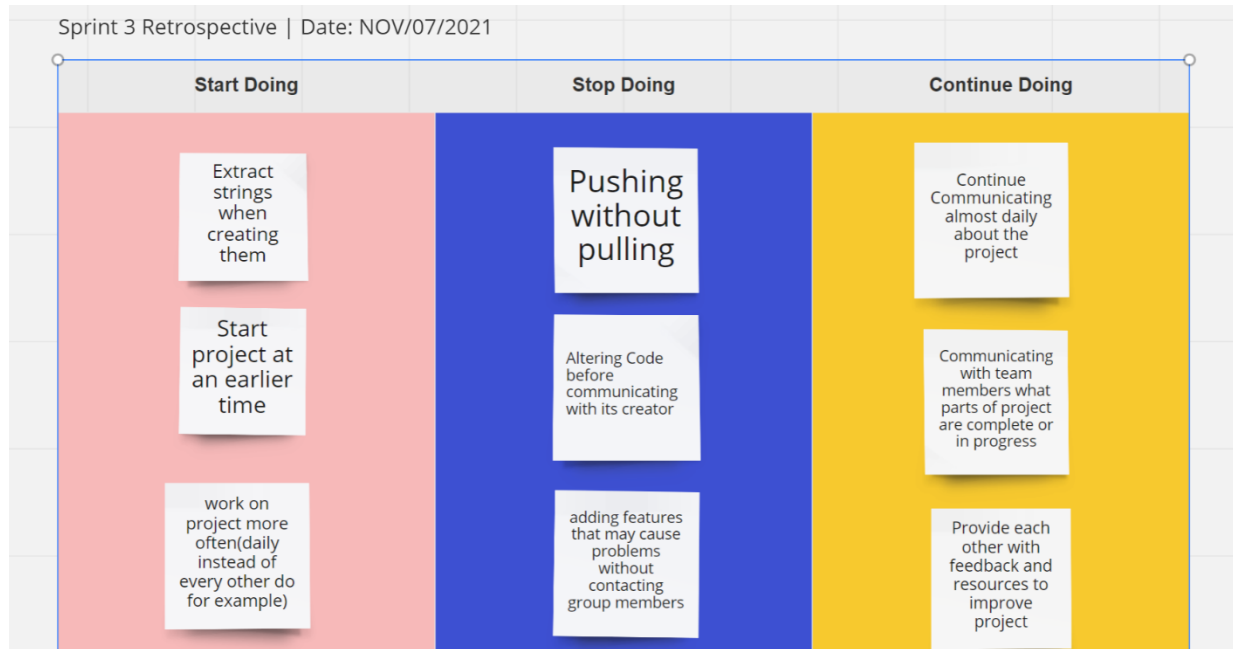
## Daily Standup

November 12th 2021

Zachary Symons	Ibrahim Abdiaziz	Andres Vargas	Johnathan Alexandris
What did you work on yesterday? Feedback page connection to database	What did you work on yesterday? edited layout and added to the drawable folder desired temperature functionality	What did you work on yesterday? Changes to home screen and added text to submit button	What did you work on yesterday? made light control screen more intuitive Text changes
What will you work on today? Sending device model to database programmatically	What will you work on today? adding Increment & Decrement feature	What will you work on today? Fixing UI and managing string extractions	What will you work on today? adding landscapes for fragments
Any Blockers? emulator made testing difficult	Any Blockers? bug when switching fragments	Any Blockers? no issues	Any Blockers? portrait lock returns to main screen

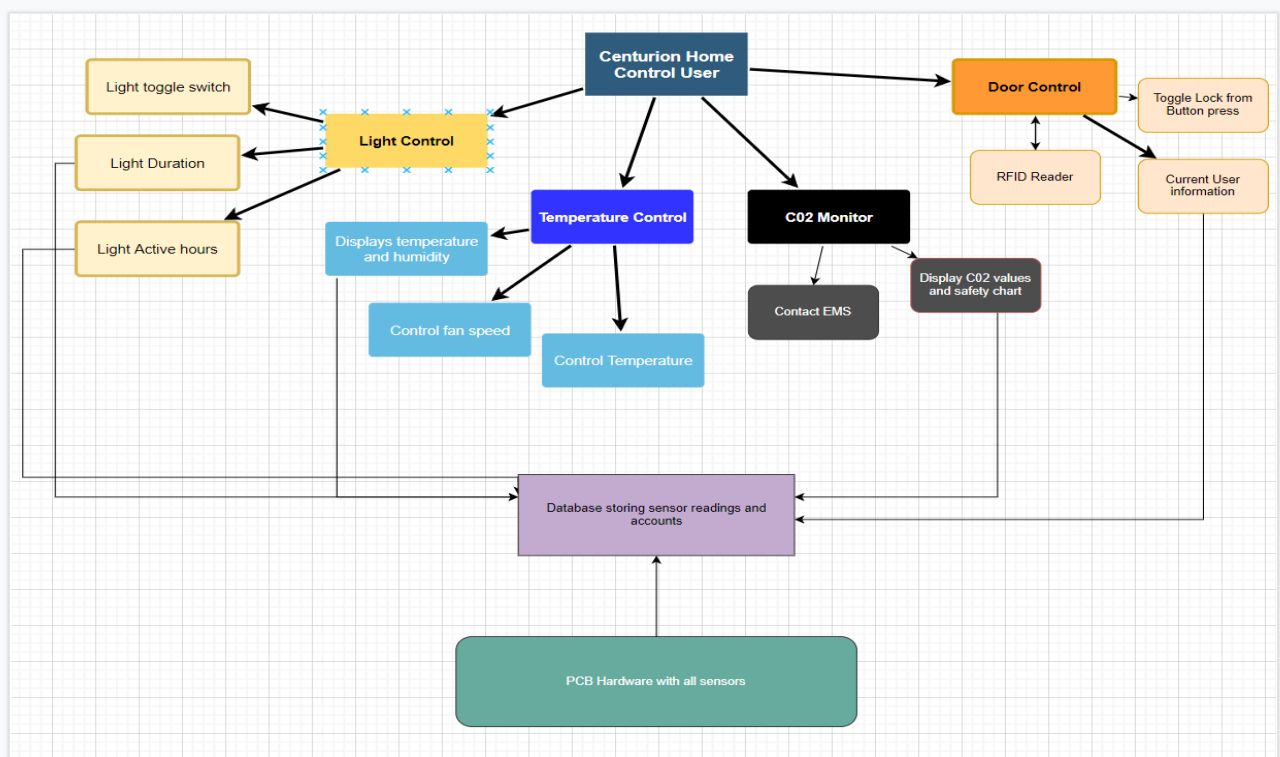


# Retrospective



All group members were present for the retrospective

## System Context Diagram



# Design Principles

In the Centurion app, we have used the Don't Repeat Yourself and the Single Responsibility Principle. The Don't Repeat Yourself Principle was used in the Thermostat screen. 3 On click listeners were used, as the increments, decrements, and Fan switches are independent of each other. The Single Responsibility Principle is used in the Carbon monoxide sensor screen. The Carbon Monoxide screen is only responsible for displaying the current readings of the CO2 sensor and allowing users to contact.

# Coding progress

- Added time functionality to home screen
- Created Feedback page that sends data to firebase
- Created Fan functionality in temperature control screen
- Added image change in light control screen
- Created snack bars for light control and temperature control screens
- Created toast for feedback screen.
- Added read functionality for CO2 screen
- Fixed UI organization
- Created more string extractions and string translations from English to French

# Runtime permission implementation

Carbon monoxide screen uses the call EMS button to call emergency medical services about potential carbon monoxide emissions in user's home. Clicking on the button shows a prompt that requires the user to give phone access to the Centurion app to call EMS.

# CENG-322 TEAM PROJECT

**Team Name: Centurion**

**Project Name: Centurion Home Control System**

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*Please negotiate, sign, scan and include as the first section in your Deliverable 1.*

**Please note that if cheating is discovered in a group assignment each member will be charged with a cheating offense regardless of their involvement in the offense. Each member will receive the appropriate sanction based on their individual academic honesty history.**

**Please ensure that you understand the importance of academic honesty. Each member of the group is responsible to ensure the academic integrity of all of the submitted work, not just their own part. Placing your name on a submission indicates that you take responsibility for its content.**

Team Member Names (Please Print)	Signatures	Student ID
Project Leader: Zachary Symons	<i>Zachary Symons</i>	N01390593

Andres Vargas	<i>Andres Vargas</i>	N01359071
Jonathan Alexandris	<i>Jonathan Alexandris</i>	N01352690
Ibrahim Abdiaziz	<i>Ibrahim Abdiaziz</i>	N01394807

For further information read Academic Honesty Policy on <https://humber.ca/legal-and-risk-management/policies/search-by-students.html>.

By signing this contract, we acknowledge having read the Humber Academic Honesty Policy as per the link below. <https://academic-regulations.humber.ca/2018-2019/17.0-ACADEMIC-MISCONDUCT>

Responsibilities of the Project Leader include:

- Assigning tasks to other team members, including self, in a fair and equitable manner.
- Ensuring work is completed with accuracy, completeness and timeliness.
- Planning for task completion to ensure timelines are met
- Any other duties as deemed necessary for project completion

What we will do if . . .

Scenario	Accepted initials	We agree to do the following
Team member does not deliver component on time due to severe illness or extreme personal problem	ZS JA IA AV	a) Team absorbs workload temporarily ____  b) Team seeks advice from professor <u>X</u>  c) Team shifts target date if possible ____  d) Other:
Team member cannot deliver component on time due to lack of ability	ZS JA IA AV	a) Team reassigns component ____  b) Team helps member <u>X</u>  c) Team member must ask professor for reference material ____  d) Other:

Team member does not deliver component on time due to lack of effort	ZS JA IA AV	<p>a) Team absorbs workload <u>X</u></p> <p>b) Team "fires" team member by not permitting his/her name on submission —</p> <p>c) Other:</p>
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Team member does not attend team meeting	ZS JA IA AV	<p>a) Team proceeds without him/her and will assign work to the absent member <u>X</u></p> <p>b) Team doesn't proceed and records team member's absence __</p> <p>c) Team proceeds for that meeting but "fires" member after __ occurrences __</p>
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An unforeseen constraint occurs after the deliverable has been allocated and scheduled (a surprise test or assignment)	ZS JA IA AV	a) Team meets and reschedules deliverable <u>  X  </u> b) Team will cope with constraint ____ c) Other:
Team cannot achieve consensus leaving one member feeling "railroaded", "ignored", or "frustrated" with a decision which affects all parties	ZS JA IA AV	a) Team agrees to abide by majority vote <u>  X  </u> b) Team flips coin ____ c) Other:

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Team members do not share expectations for grade desired	ZS JA IA AV	<p>a) Team will elect one person as "standards-bearer" who has the right to ask that work be redone __</p> <p>b) Team votes on each submission's quality <u>X</u></p> <p>c) Team will ask for individual marking and will identify sections by author __</p> <p>d) Other:</p>
Team member behaves in an unprofessional manner by being rude or uncooperative	ZS JA IA AV	<p>a) Team attempts to resolve the issue by airing the problem at team meeting <u>X</u></p> <p>b) Team requests meeting with professor to problem-solve __</p> <p>c) Team ignores behaviour __</p> <p>d) Team agrees to avoid use of all vocabulary inappropriate to the business setting __</p>



Team member assumes or requests that his/her name be signed to a submission but has not participated in production of the deliverable	ZS JA IA AV	<p>a) Team agrees that this is cheating and is unethical <u>X</u></p> <p>b) Friends are friends and should help each other ____</p> <p>c) Team will submit with signature but will advise professor who will take action ____</p>
There is a dominant team member who is content to make all decisions on the team's behalf leaving some team members feeling like subordinates rather than equal members	ZS JA IA AV	<p>a) Team will actively solicit consensus on all decisions which affect project direction by asking for each member's decision and vote <u>X</u></p> <p>b) Team will express subordination feelings and attempt to resolve issue ____</p> <p>c) Other:</p>

<p>Team has a member who refuses to participate in decision making but complains to others that s/he wasn't consulted</p>	<p>ZS JA IA AV</p>	<p>a) Team forces decision sharing by routinely voting on all issues __</p> <p>b) Team routinely checks with each other about perceived roles <u>X</u></p> <p>c) Team discusses the matter at team meeting __</p>
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