**COVID Spread Tracking App**

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# Stakeholders

|  |  |
| --- | --- |
| Unit | Representative |
| UI | Sahrish Kanwal |
| Backend | Andrey Merdeev |
| Messaging | <TBD> |

# Updates

|  |  |  |
| --- | --- | --- |
| Date | Version | Update |
| May--10’21 | V 0.1 | First draft |
|  |  |  |

# Business Objective

# Future State

## Functional Requirements`

### Workflow (Use Case)

|  |  |  |
| --- | --- | --- |
| Workflow | Task | Phase |
| Workflow 1 | track TS (Time Series) data for the user’s phone {position, time} | MVP |
|  |  |  |
| Workflow k | Description + sketch |  |
| research COVID spreading (x, t) | Get real time data of COVID spreading (**x, t).** |  |
|  |  |  |
|  |  |  |

### UI

|  |  |  |
| --- | --- | --- |
| Scope | Task | Phase |
| Component 1 | put data into system {coronaStatus, date/time} | MVP |
|  |  |  |
| Component k | Description + sketch |  |
|  |  |  |
|  |  |  |
|  |  |  |

## Non-Functional Requirements

### Backend

|  |  |  |
| --- | --- | --- |
| Scope | Task | Phase |
| Component 1 | Description + proposed design | MVP |
|  |  |  |
| Component k | Description + proposed design |  |
|  |  |  |
|  |  |  |
|  |  |  |

### Messaging Format

|  |  |  |
| --- | --- | --- |
| Scope | Task | Phase |
| Component 1 | Description + proposed design | MVP |
|  |  |  |
| Component k | Description + proposed design |  |
|  |  |  |
|  |  |  |
|  |  |  |

### SRE

|  |  |  |
| --- | --- | --- |
| Scope | Task | Phase |
| SLA | Description + values | MVP |
| SLI | Description |  |
| SLO | Description + values |  |
|  |  |  |
|  |  |  |
|  |  |  |

Possible project topics

Storytelling : Human movement detection for small teams, can be adapted   (3 members because 3 sets of hardware ?)

Project organization :

* Step 1 : getting the mouvement state of. a person (still,walking,running) x (standing up, lying) x (falling, jumping)
* Step 2 : Metrics for movement (speed of walking / running) x (maximum height) x (distance falled, distance jumped)
* Step 3 : Social distancing measure : detect how far a given team member is away from us

Team organization

* Project manager (communication, schedule,resources)
* General information about application field
* Hardware setup, system architecture
* Data pre-processing
* Data processing
* Data analytics
* Test and validation