HYPEROPS TECHFEST

IIT Bombay
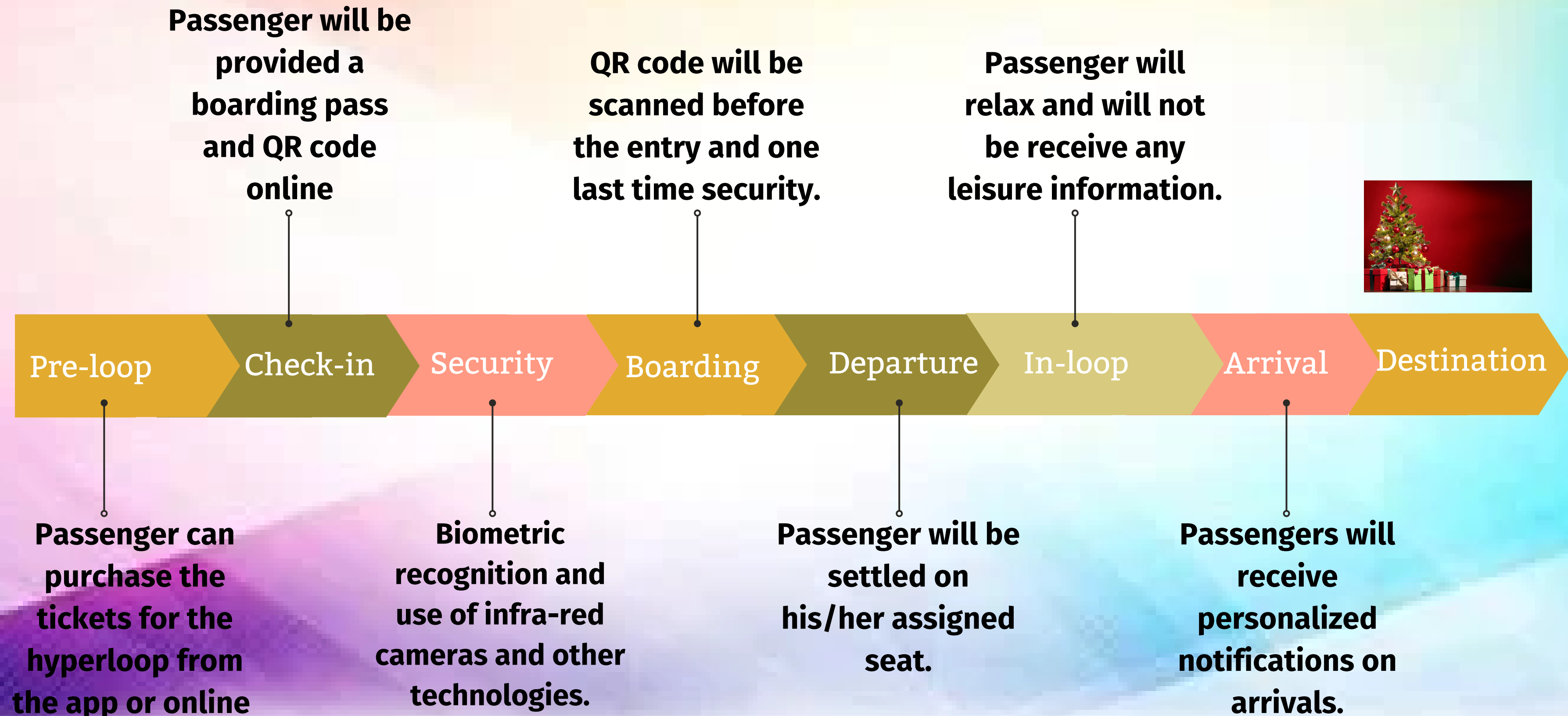
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Objectives

- Shorten the waiting time of passengers' journey.

- To best optimize the passenger flow

- To make hyperloop more convenient for commercial use.

Definition of the Problem addressed

We have to form a basic idea of how we can control passengers during peak rush hours or normal days. So, the passenger can settle down in a limited time.

Proposed solution

Passenger will be provided a boarding pass and QR code online

QR code will be scanned before the entry and one last time security.

Passenger will relax and will not be receive any leisure information.

| Pre-loop | Check-in | Security | Boarding | Departure | In-loop | Arrival | Destination |

Passenger can purchase the tickets for the hyperloop from the app or online

Biometric recognition and use of infra-red cameras and other technologies.

Passenger will be settled on his/her assigned seat.

Passengers will receive personalized notifications on arrivals.

BUSINESS USE CASE

Ideas related to the business case.

- **Hyperloop gives us transportation at the speed of an airplane, up to about 1,000 kilometers an hour, it gives us the high capacity, and the Mumbai-Pune project that we have looked at, we look at carrying up to 150 million people a year.**
- **It allows us to do all of this without polluting the air we breathe, it's cleaner and greener.**
- **Hyperloop is an ultra-high-speed ground transportation system for passengers and cargo.**
- **Hyperloop systems could be replacing air travel around the world within a decade and a half.**
- **Hyperloop will bring sustainability and faster travel, with the potential to disrupt competing industries once operational by 2030.**

So, most of you must be wondering about the system behind QR-CODE.
Once the user purchase the ticket, the system will assign the user it's platform number, pod number, seat number and time of departure from it's database and will save your data in the system with your seat and pod number, will generate an QR-code and will assign it to the user, so that it's easy to verify you at the hyperloop station.

SOLUTION FILES

Passenger Flow

To improve the passenger flow at the hyperloop

- **Less time spent in lines lifts revenue**
- **Additional or online technologies for immediate feedback.**
- **Use of real-time anonymized data to improve service.**
- **Use of Real-time monitoring technology.**
- **Adaptive wayfinding.**
- **Take a passenger-first approach.**
- **Security systems around the infrastructure.**
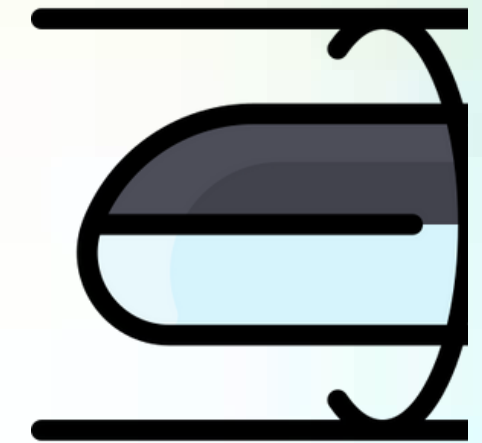
Further more development

Further more, after hitting purchase tickets button the user will be required to enter his/her details like name, no. of passenger , phone number and etc.

After filling up the details, the user will be redirected to the purchase page.

After that the user will receive an QR CODE (Ticket) that he/she will be required to scan it later at the hyperloop station for verification.

After the verification he/she is ready to board the hyperloop from their respected platforms.

Convenient Usage

How is my solution better than others?	.....	What remarkable features does it have?	.....	Which factors gave me an edge over the other solutions?

- **Our boarding pass is paperless so it will not get lost**
- **Providing passengers less time in covering their journey.**
- **The operators can help the passengers boarding the platform they are on**

- **E-ticketing**
- **Security check is limited but effective**
- **No paperwork**
- **Time manageable**
- **Friendly for passengers and staff**
- **All details compiled in mobile**

- **Fully operated in solar energy and doesn't exploit nature.**
- **We can travel towards our destination without any trouble.**
- **Every innovation can be used in other fields as well.**

Thank you!