

Group: 12
Inclusivity Innovators

**MOBILITY
SYSTEM
FOR
PEOPLE WITH
DISABILITY**

~Group Members

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Clear Definition of the Topic

- The Mobility System for people with disabilities refers to the set of technologies or systems designed to assist individuals with physical disabilities in assessing different environments.

PROBLEM STATEMENT

- The lack of awareness about disabilities among general public leads to misconceptions or inadequate support.
- To address this issue we are trying to develop a modified wheelchair which will enable people with disabilities to move around easily, independently and safely.



MIND MAPPING

SAFETY EMERGENCY SUPPORT

- Mobility AIDs
- Visual Alerts
- Evacuation Needs
- Incident Reporting

MULTIPLE DISABILITIES

- Cognitive Impairments
- Mentally Unstable Person
- Epilepsy
- Dismembereal

ACCESSIBLE NEEDS

- Education
- Entertainment
- Employment
- Facilities

SMART STRUCTURES

- Elevators
- Automated Doors
- Cross Walks
- Real-time Infosystems

MOBILITY
SYSTEM FOR
PEOPLE WITH
DISABILITY



END USERS-PERSONA 1

BACKGROUND

- Poverty
- Historical Context
- Accident

CHALLENGES FACED

- Unemployment
- Lack of Support Network
- Transportation Difficulties

MOTIVATION

- Overcoming Challenges
- Achieving Independence

DOUBTS/FEARS

- Being judged on their disabilities
- Rejection in Employment
- Losing Independence

ASPIRATION

- Personal Development
- Living Independently
- Exploring The World

People With Disabilities Faces Many Challenges Impact On Their Lives.They Are Motivated By A Desire To Improve There Health Maintained , Independence , And Achieve Personalized And Proffessional Goals.



PEOPLE WITH DISABILITIES

- 55 years old
- Nashik
- RemoteWork

END USERS-PERSONA 2



PEOPLE WITH CHRONIC CONDITIONS

- 29 years old
- Pune
- Designer

BACKGROUND

Despite their injury, they might have continued their career in various fields.

CHALLENGES FACED

- Maintaining Health
- Cost Of Medical Care
- Financial Burden

MOTIVATION

- Wish to be engaged with family
- Love ones often motivates individuals to manage their conditions.

DOUBTS/FEARS

- Whether their conditions will affect their self image or how others perceive them.
- Whether their current treatment plan is effective or not.

ASPIRATION

- Improving their quality of life by achieving a good balance between managing their condition and enjoying daily activities.
- Pursuing Higher Education

People With Chronic Conditions Faces Health Challenges That Impact Various Aspects Of Their Lives While Also Operating Financial Burdens And Potential Social Isolation.

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WHO

Who is affected by the problem ?

The mobility system for people with disability problem affect individuals and groups like physical disabilities,older adults with age related mobility issues,caregivers and family members of people with disabilities.also it includes employers and business due to limited customer access.

WHAT

What exactly is the issue ?

The issue is the lack of accessible, safe, and efficient mobility systems that allow people with disabilities to move around independently. Many existing transportation systems, buildings, and public spaces are not designed to accommodate people with physical limitations, limited access to services, and reduced quality of life.

WHERE

Where does the problem occur ?

This problem occurs globally, but particularly in places where infrastructure is not designed with accessibility in mind.

WHEN

When does this problem arise ?

The problem arises every day when people with disabilities need to move within their communities, travel for work, education, or access public services. It is particularly acute during emergencies or in areas with outdated infrastructure.

WHY

Why is solving this important ?

Solving this issue is crucial for ensuring equality, inclusion, and independence for people with disabilities. Accessible mobility is a fundamental human right and a key factor in improving their quality of life. reducing social isolation,.

HOW

How will your solution address the problem ?

A well-designed mobility system could include innovations like adaptable vehicles, smart navigation aids, modified wheelchair. These systems would be designed to be user-friendly, safe, and adaptable to different disabilities, providing people with the freedom to move independently and access services without barriers.

THEORY OF PRIORITIZATION

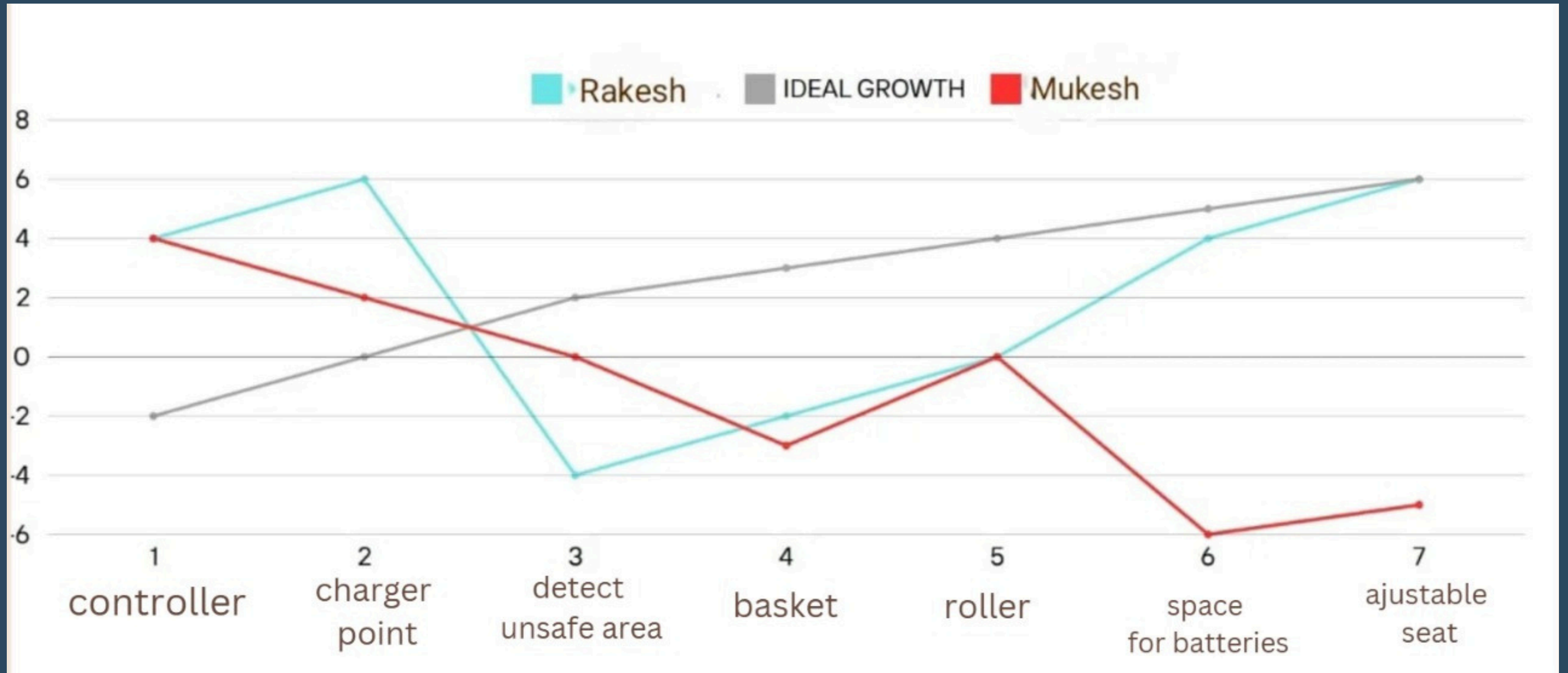
PROBLEM IDENTIFIED	POINTS ALLOTTED	PROBLEM IDENTIFIED	POINTS ALLOTTED
Lack Of Awareness	6000	Financial Barriers	4800
Transportation Barriers	4300	Limited Job Opportunities	3800
Accessibility Barriers	5000	Social Isolation	2400
Lack Of Support Network	4200	Limited Income	3600
Limited Mobility Devices	2600	Emotional & Mental Struggle	4300
Inadequate Medical Care	1800	Higher Rates Of Poverty	2400

SCAMPER

S : SUBSTITUTE
C : COMBINE
A : ADAPT
M : MODIFY
P : PUT TO ANOTHER
E : ELIMINATE
R : REVERSE

In Scamper ,we choose to focus on “Modify” step for designing a modified wheelchair for people with disability. Modify step directly targets user-specific needs, enhancing functionality and accessibility. We don’t choose other scamper steps because they don’t fully address the specific need of people with disabilities.Focusing in “Modify” allows us to customize the wheelchair without sacrificing safety.

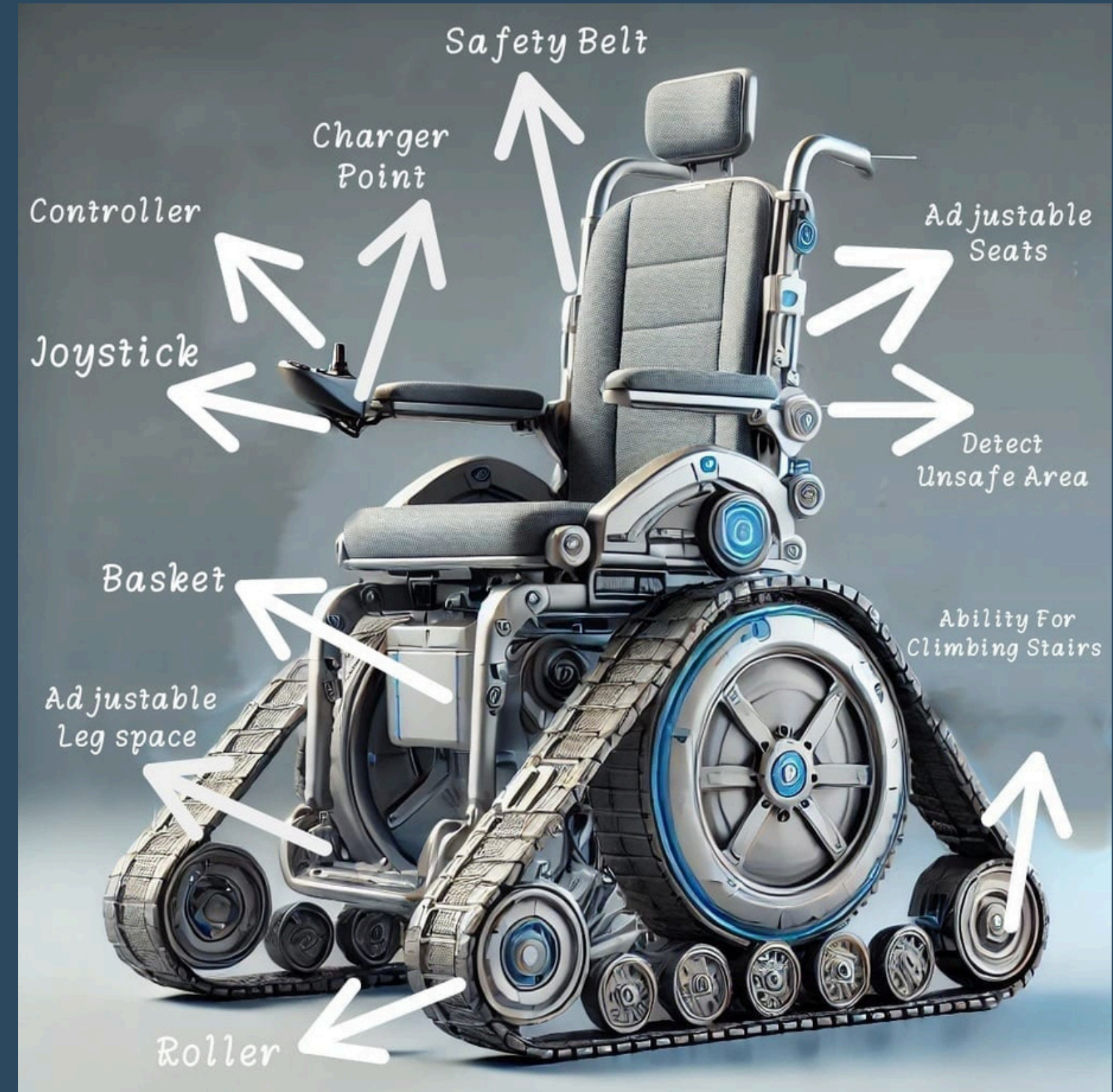
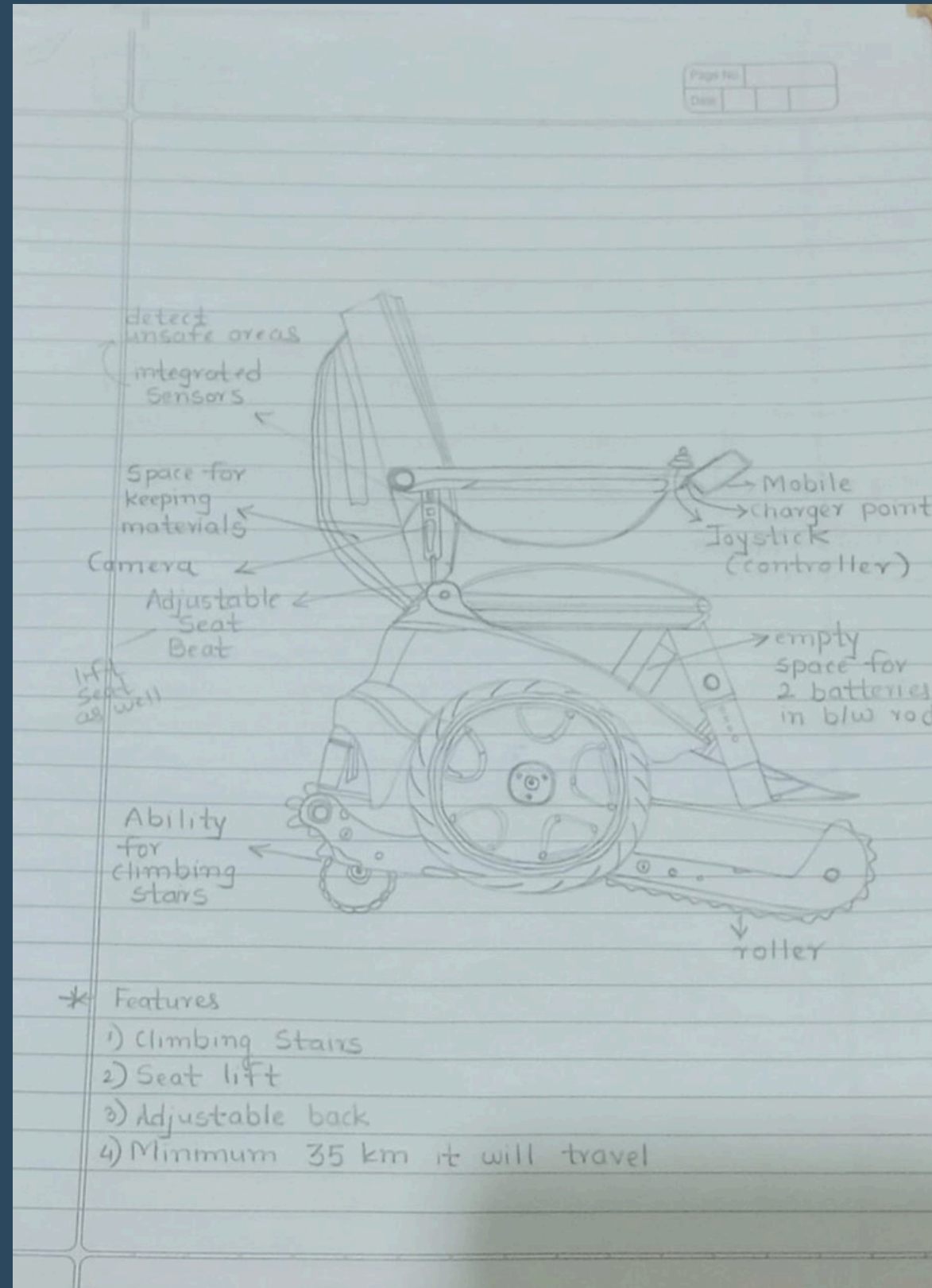
JOURNEY MAP



NORMAL WHEELCHAIR



MODIFIED E-WHEELCHAIR



THANK YOU!!!