**HouseHunt: finding your perfect rental home**

# INTRODUCTION

## ProjectOverview

HouseHunt is a MERN-stack-based online purchases system that allows users to browse items, filter by category, place orders, and view order history, all through a user-friendly interface.

## Purpose

To provide an efficient, secure, and visually appealing online platform for customers to explore and order grocery items with ease.

# IDEATIONPHASE

* 1. ProblemStatement

Existing online grocery platforms lack proper category filtering, order history visibility, and often suffer from poor user interface.

## EmpathyMapCanvas

* + - UserNeeds:Easygrocerybrowsing,clearfiltering,seamless ordering
    - PainPoints:ComplexUI,missingordertracking
    - Goals:Intuitivewebsitewithsecureorderplacementandhistorytracking

## Brainstorming

The team discussed multiple approaches including different technology stacks, UI designs, and featurepriorities,finalizingMERNstackwithJWT-basedauthenticationforoptimalperformance.

# REQUIREMENTANALYSIS

## CustomerJourneyMap

1. Userregisters/login
2. Browsesavailablegrocery items
3. Filters by category
4. Placesanorder
5. Viewsorderhistory

## SolutionRequirements

* + - Userauthentication
    - Grocerylistingwithimages,prices,brands
    - Category filtering
    - Orderplacementandorderhistory
    - ResponsiveUIwithclear styling

## DataFlowDiagram

DataFlowDiagramwillbeaddedhere.

## TechnologyStack

* + - Frontend:ReactJS
    - Backend:Node.js+Express
    - Database:MongoDBAtlas
    - Authentication:JWT
    - Styling:CSS

# PROJECTDESIGN

## ProblemSolutionFit

ShopSmart offers a secure, feature-rich, and easy-to-use platform that addresses key gaps in online grocery shopping.

## ProposedSolution

AMERNstackapplicationwithcategoryfiltering,orderhistory,securelogin,andcleanUI.

## SolutionArchitecture

SolutionArchitectureDiagramwillbeaddedhere.

# PROJECTPLANNING&SCHEDULING

* 1. ProjectPlanning

TwoSprints:Backend&Database(Sprint1),Frontend&Styling(Sprint2) Velocity: 15 Story Points per Sprint

# FUNCTIONALANDPERFORMANCETESTING

## Performance Testing

* + - FastAPIresponsetime
    - Secureauthentication tested
    - Ordersplacedsuccessfully
    - Filterfunctionalityworking

# RESULTS

## OutputScreenshots

Screenshots of the grocery listings, filtering, order placement, and order history pages will be added here.

# ADVANTAGES&DISADVANTAGES

Advantages:

* Secureandefficient
* User-friendly interface
* Categoryfilteringandorderhistory
* Responsivedesign Disadvantages:
* Initialdeploymentonlyonlocalhost
* Futurescalingrequiredforlargedatasets

# CONCLUSION

ShopSmart successfully delivers a clean, functional, and secure online grocery shopping platform addressing common issues in existing systems.

# FUTURESCOPE

* Deploymentoncloudplatforms
* Payment gateway integration
* Adminpanelformanaginggroceryitems
* Improved UI features

# APPENDIX

* SourceCode: Provided
* DatasetLink:N/A(User-enteredgrocerydata)