UNIVERSITI TEKNOLOGI MARA

Kolej Pengajian Pengkomputeran, Informatik dan Matematik

INTRODUCTION TO WEB AND MOBILE APPLICATION

(CSC264)

INDIVIDUAL GROUP PROJECT:

CHECKMATE!

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TABLE OF CONTENTS

No.	Title	Page
1	1.0 Entrepreneurial Mind & Opportunity	1
2	2.0 Introduction to System 1.1 Problem Statement 1.2 Objectives 1.3 Scope of Project 1.4 Project Significant	2
3	3.0 Flowchart	5
4	4.0 Functional Design 3.1 Functional Requirement/Process Design	6
5	5.0 Interface Design 4.1 Block Codes	8

1.0 Entrepreneurial Mind & Opportunity

In today's fast-paced world, productivity and time management are more important than ever. With more people working remotely and juggling multiple tasks, there is a big need for tools that help keep everything organized. A to-do list app with advanced features like task prioritization, time management metrics, and productivity tracking can be a great solution. This app not only meets current market needs but also has a lot of potential to be commercialized because of its unique features and suitability for the market.

Future Entrepreneurial Mind

The future entrepreneurial mind is all about being adaptable, innovative, and understanding market needs. Entrepreneurs today must be good at using technology to create solutions that are not just functional but also focused on the user. This involves continuous learning, embracing digital change, and being proactive in identifying and responding to new trends. Entrepreneurs need to be problem-solvers, efficient, and focused on creating value for customers and the community. They must also be resilient, ready to handle uncertainties, and able to pivot when necessary to meet changing demands.

Opportunity

There is a significant opportunity for a to-do list app in the current market because of the high demand for productivity tools. With more people working remotely, both individuals and organizations are looking for efficient ways to manage tasks and projects. The proposed app can tap into this market by offering advanced features like task prioritization, time management metrics, and productivity tracking, which make it stand out from basic to-do list apps. By adding collaboration tools and project management capabilities, the app can attract both individual users and teams, creating a broad user base and diverse revenue streams.

Commercialization Potential

The proposed to-do list app has strong potential to be commercialized for three main reasons. Firstly, its advanced features meet the growing need for sophisticated productivity tools, making it attractive to both personal users and businesses. Secondly, the app can be monetized in different ways, such as subscription plans for premium features, in-app purchases, and enterprise licenses for organizations. Lastly, the app’s ability to integrate with other popular productivity and collaboration tools, like calendars and communication platforms, increases its usefulness and encourages long-term user retention. These factors together create a strong business case for the app's commercialization.

2.0 Introduction to System

In today's fast-paced world, individuals are busier than ever, juggling multiple responsibilities and tasks both at work and in their personal lives. This constant rush can lead to disorganization, increased stress, and a feeling of being overwhelmed. Many people struggle to keep track of their to-do lists, often missing important deadlines or forgetting critical tasks. Recognizing these challenges faced by modern users, CheckMate! has been developed as a simple yet effective solution to help users manage their tasks efficiently.

CheckMate! is designed to address the common problems of disorganization and stress by offering a straightforward tool for task management. The app includes features that allow users to add, update, and delete tasks, as well as view the total number of tasks. By using CheckMate!, users can become more organized, ensuring that no task is forgotten and that they can see at a glance what needs to be done. This clear organization helps users prioritize their tasks, ensuring that the most important ones are tackled first.

One of the key benefits of CheckMate! is its ability to reduce stress. By providing a clear overview of all tasks, users can avoid the anxiety that comes with trying to remember everything. This clear organization helps users prioritize their tasks, ensuring that the most important ones are tackled first. This prioritization is crucial in managing time effectively and ensuring that critical deadlines are met. With a well-organized ask list, users can approach their daily responsibilities with confidence and peace of mind.

In addition to being organized and reducing stress, CheckMate! boosts productivity by helping users focus on their tasks. By clearly showing what needs to be done, users can plan their days more effectively, leading to increased productivity. Moreover, the sense of accomplishment from updating and deleting completed tasks can boost motivation, encouraging users to stay on track and complete their to-do lists. This report will further explore the design, functionality, and benefits of CheckMate!, highlighting how it stands out as a valuable tool for modern users.

2.1 Problem Statement

1**. Disorganization and Missed Deadlines**
Many individuals struggle with keeping their tasks organized due to the sheer volume of responsibilities they need to manage. Without a structured system, tasks can easily be forgotten or overlooked, leading to missed deadlines and important commitments. This disorganization not only affects personal productivity but can also have serious implications in professional settings where timely task completion is crucial.

2. Increased Stress and Anxiety
The inability to efficiently manage and prioritize tasks results in heightened levels of stress and anxiety. When tasks pile up and there is no clear plan in place, individuals can feel overwhelmed and uncertain about how to tackle their workload. This constant state of stress can negatively impact both mental and physical health, leading to decreased overall well-being and productivity.

3. Lack of Prioritization and Productivity
Without a clear system to prioritize tasks, users often spend time on less important activities while neglecting critical ones. This lack of prioritization leads to inefficient use of time and resources, ultimately decreasing productivity. Furthermore, without the ability to track and visualize their progress, individuals may struggle to stay motivated and focused on their goals, leading to a sense of unaccomplished work and diminished motivation.

CheckMate! addresses these problems by providing a user-friendly platform that allows individuals to add, update, and delete tasks easily, while also keeping track of the total number of tasks. This helps users stay organized, prioritize effectively, reduce stress, boost productivity, and maintain motivation.

2.2 Objectives

Total Task Count and Overview: Implement a feature in CheckMate! that displays the total number of tasks, providing users with a quick overview of their workload. This feature helps users gauge the scope of their responsibilities and prioritize effectively.

Accessibility in Task Management: Ensure that CheckMate! allows users to seamlessly add, update, and delete tasks. This accessibility ensures that users can manage their tasks on-the-go.

Efficient Task Editing and Search: Enhance CheckMate! with features that enable users to search for tasks easily and edit them efficiently. This functionality ensures that users can quickly find and modify specific tasks, keeping their task management streamlined and up-to-date.

2.3 Scope of Project

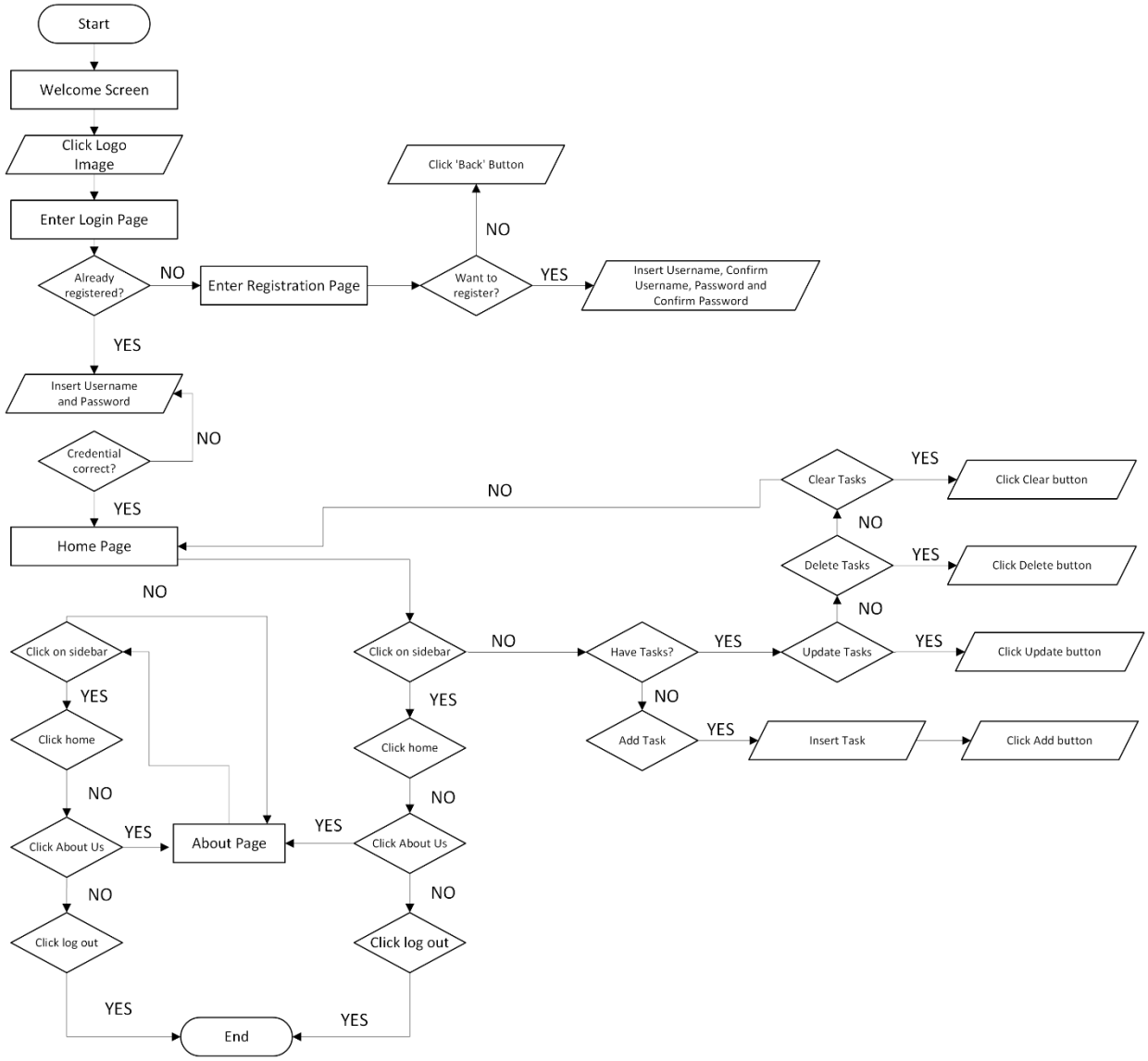
The scope of the CheckMate! project begins with a user-friendly registration process where users need to register their username and password. Upon completion, users can seamlessly login to access robust functionalities for adding, editing, deleting, and clearing tasks, empowering them with effective task management capabilities. The app will feature an attractive and intuitive user interface that enhances navigation, ensuring a pleasant user experience throughout. Users will be guided through a straightforward setup process with clear prompts and intuitive controls to manage their task lists effortlessly. Additionally, integrated search functionality will enable quick retrieval of specific tasks, further enhancing organization and efficiency in task management.

2.4 Project Significant

Reduced Stress and Improved Well-being: The app's intuitive interface and features simplify task management, reducing the cognitive load on users. This reduction in mental strain can significantly lower stress levels and contribute to overall well-being by promoting a sense of control and accomplishment.

Improved Time Management: CheckMate! enables users to optimize their time by providing clear insights into task deadlines and priorities. This capability helps users make informed decisions about task allocation and scheduling, ultimately enhancing time management skills and efficiency.

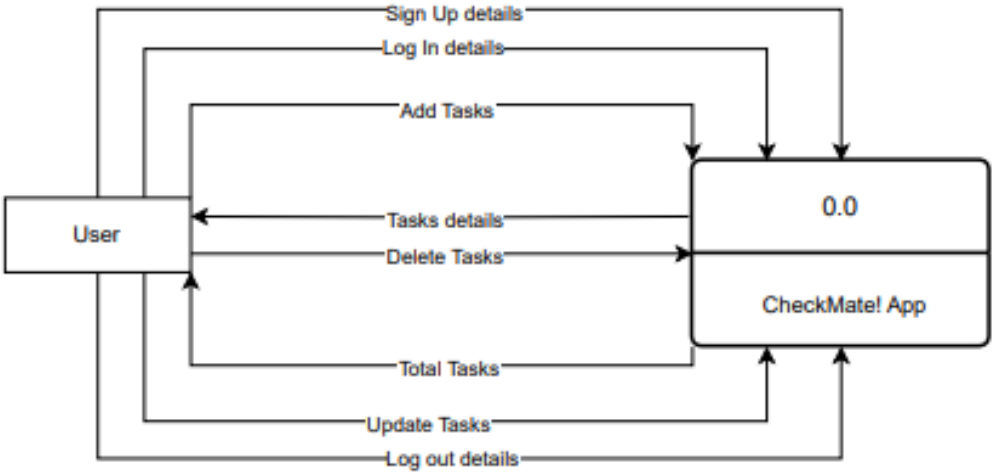
2.0 Flowchart



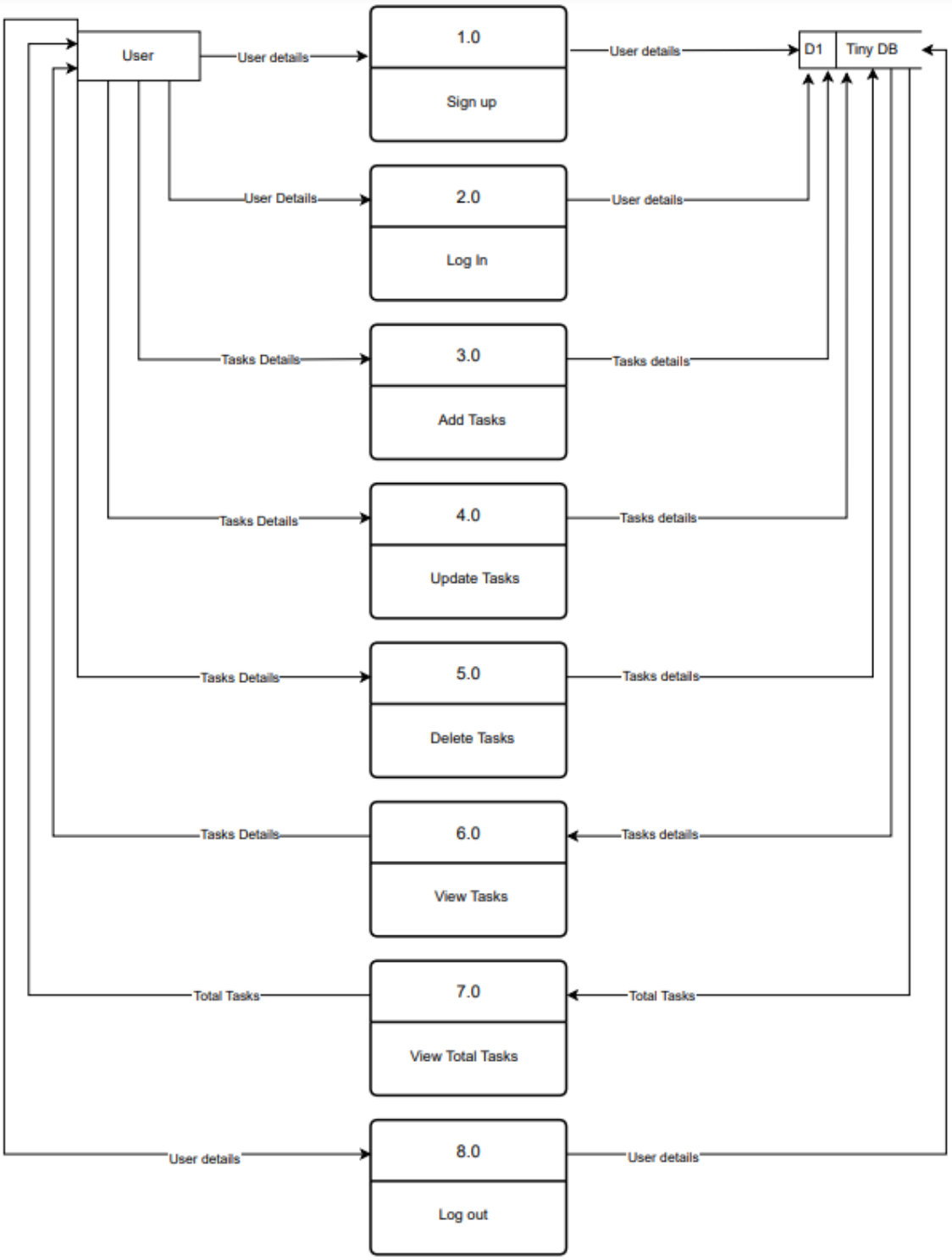
3.0 Functional Design

3.1 Functional Requirement/Process Design

DFD Level 0



DFD Level 1

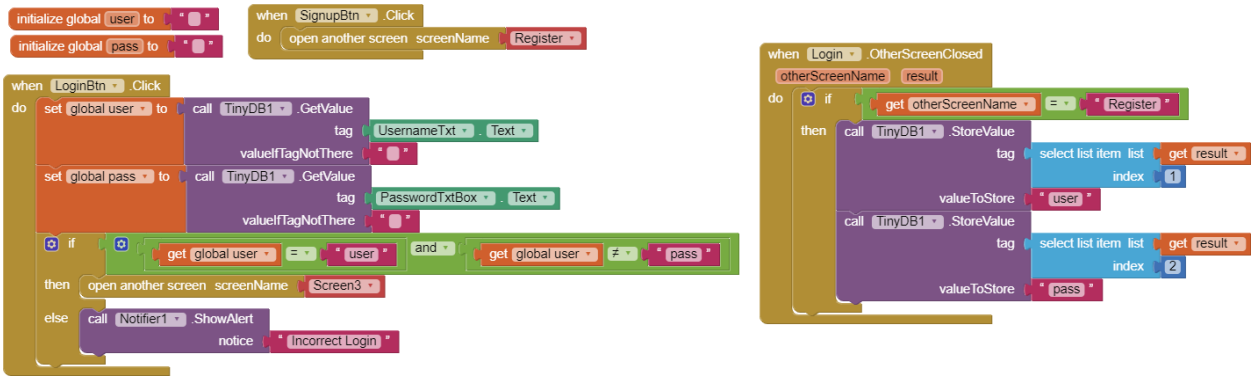

User
User details
1.0
Sign up
User details
D1
Tiny DB
User Details
2.0
Log In
User details
Tasks Details
3.0
Add Tasks
Tasks details
Tasks Details
4.0
Update Tasks
Tasks details
Tasks Details
5.0
Delete Tasks
Tasks details
Tasks Details
6.0
View Tasks
Tasks details
Total Tasks
7.0
View Total Tasks
Total Tasks
User details
8.0
Log out
User details

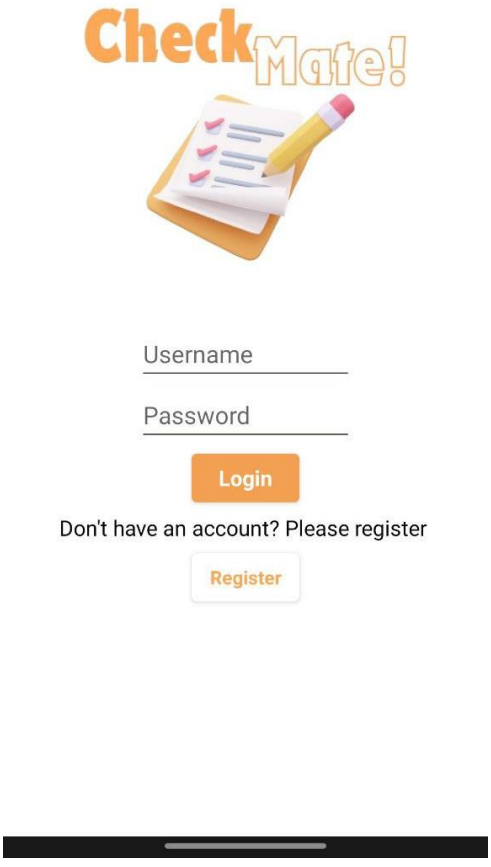
4.0 Interface Design

4.1 Block Codes

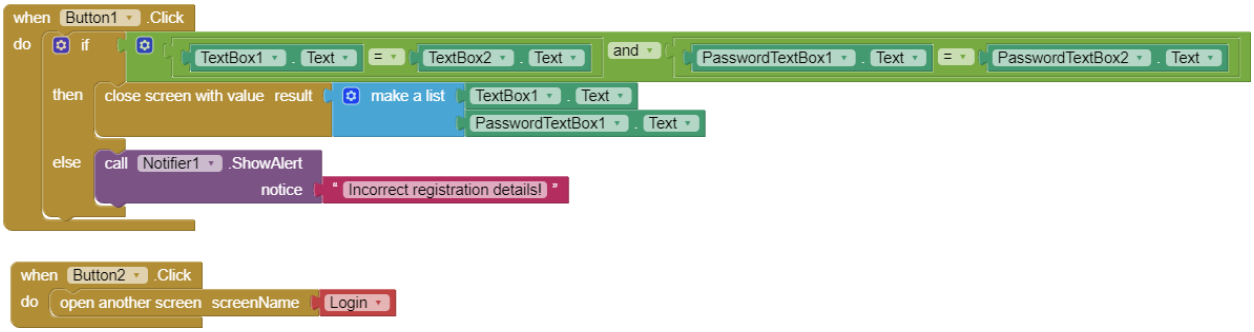
Welcome Page

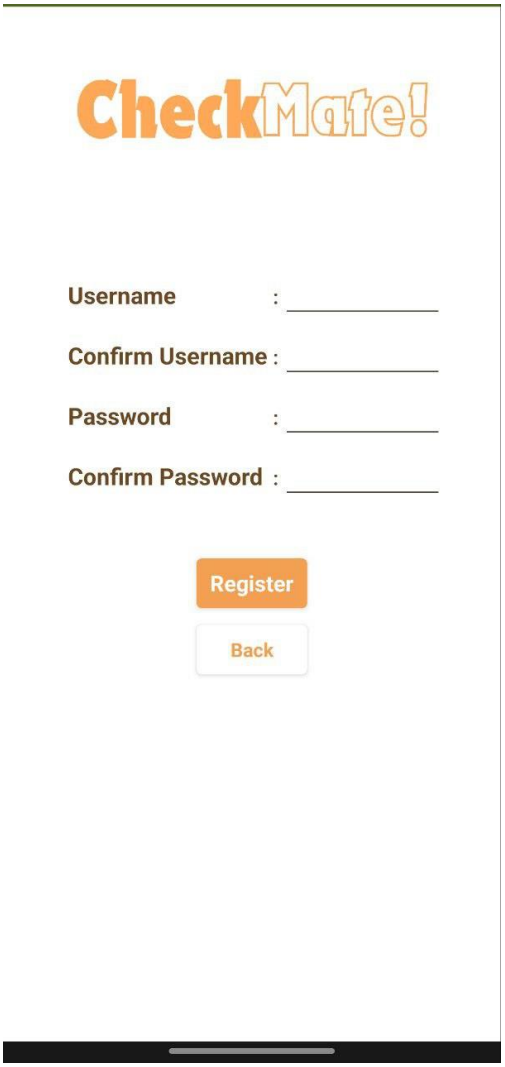
Login Page


initialize global user to
initialize global pass to
when SignupBtn .Click
do open another screen screenName Register
when LoginBtn .Click
do set global user to call TinyDB1 .GetValue
tag UsernameTxt . Text
valueIfTagNotThere
set global pass to call TinyDB1 .GetValue
tag PasswordTxtBox . Text
valueIfTagNotThere
if get global user = user and get global user ≠ pass
then open another screen screenName Screen3
else call Notifier1 .ShowAlert
notice Incorrect Login
when Login .OtherScreenClosed
otherScreenName result
do if get otherScreenName = Register
then call TinyDB1 .StoreValue
tag select list item list get result
index 1
valueToStore user
call TinyDB1 .StoreValue
tag select list item list get result
index 2
valueToStore pass

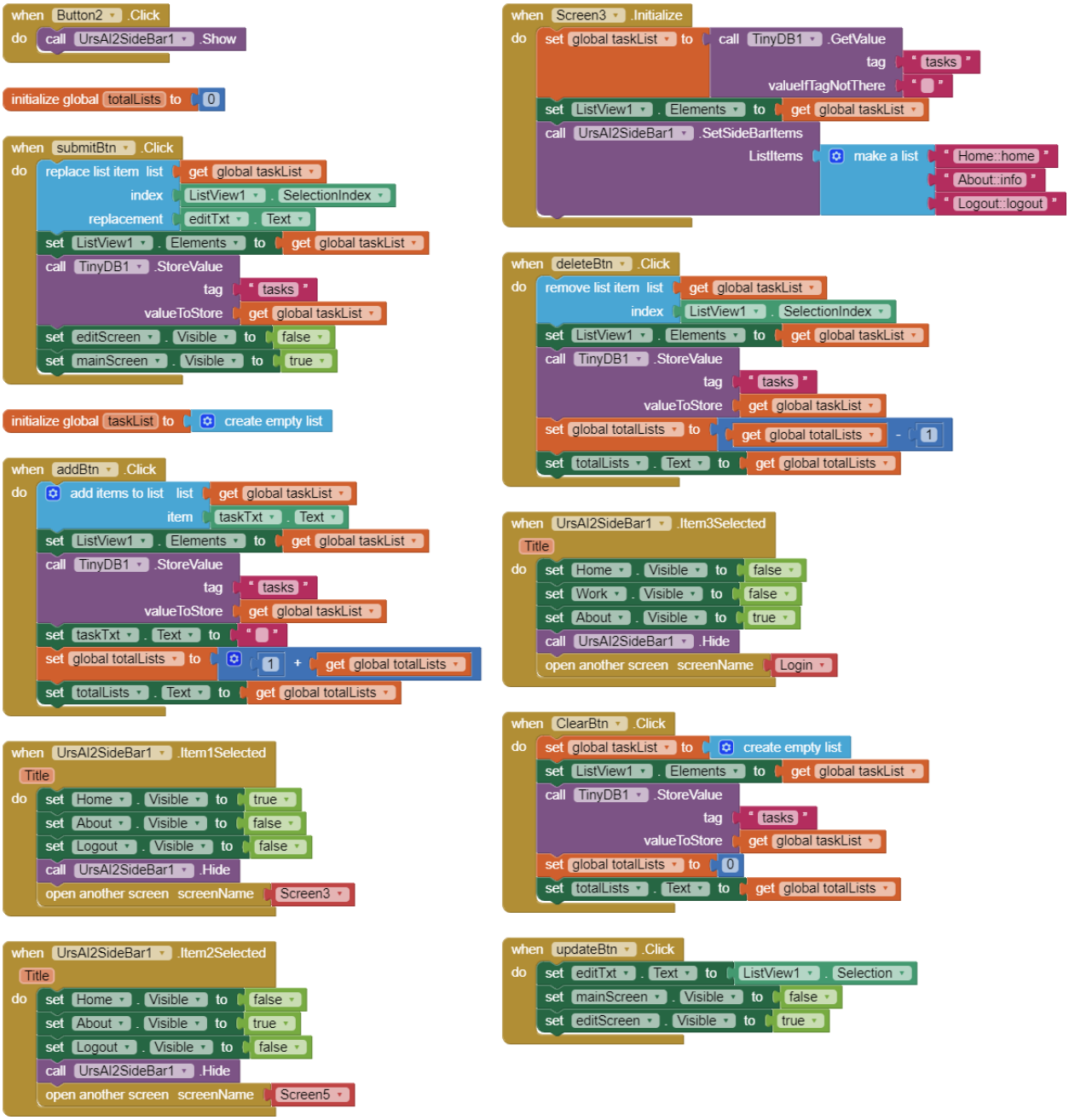

CheckMate!
Username
Password
Login
Don't have an account? Please register
Register

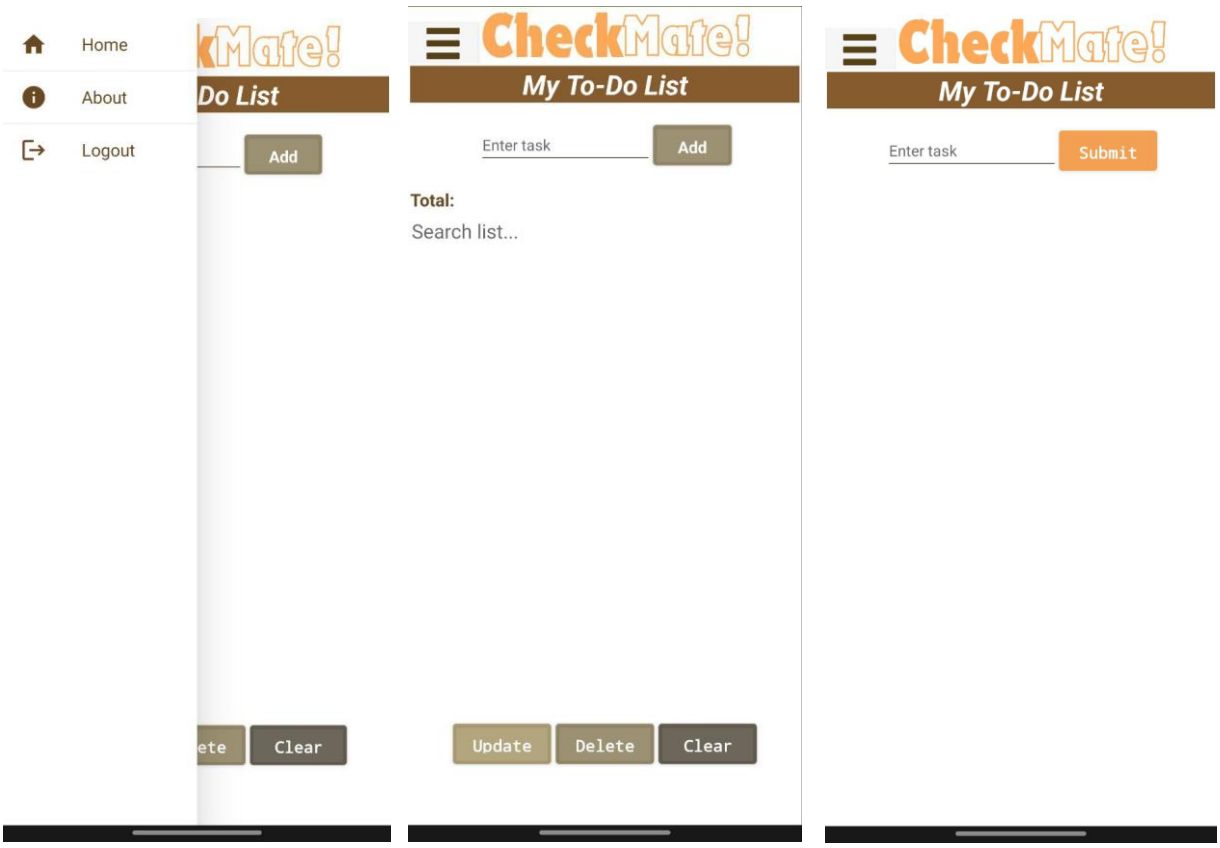
Register Page



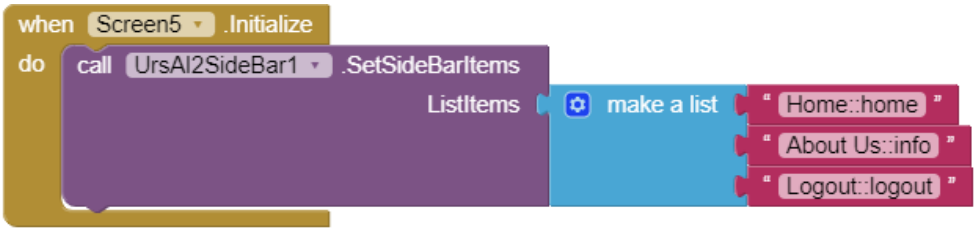


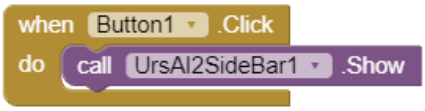
Screen 3

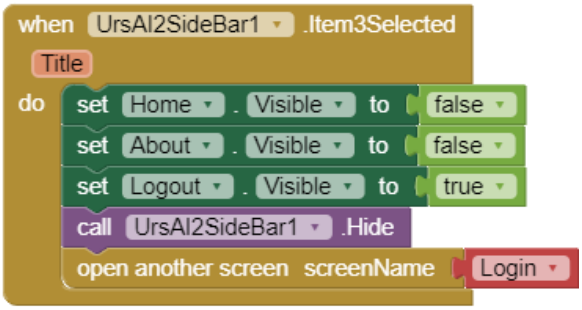

when Button2 .Click
do call UrsAI2SideBar1 .Show
initialize global totalLists to 0
when submitBtn .Click
do replace list item list get global taskList
index ListView1 . SelectionIndex
replacement editTxt . Text
set ListView1 . Elements to get global taskList
call TinyDB1 .StoreValue
tag " tasks "
valueToStore get global taskList
set editScreen . Visible to false
set mainScreen . Visible to true
initialize global taskList to create empty list
when addBtn .Click
do add items to list list get global taskList
item taskTxt . Text
set ListView1 . Elements to get global taskList
call TinyDB1 .StoreValue
tag " tasks "
valueToStore get global taskList
set taskTxt . Text to " "
set global totalLists to 1 + get global totalLists
set totalLists . Text to get global totalLists
when UrsAI2SideBar1 .Item1Selected
Title
do set Home . Visible to true
set About . Visible to false
set Logout . Visible to false
call UrsAI2SideBar1 .Hide
open another screen screenName Screen3
when UrsAI2SideBar1 .Item2Selected
Title
do set Home . Visible to false
set About . Visible to true
set Logout . Visible to false
call UrsAI2SideBar1 .Hide
open another screen screenName Screen5
when Screen3 .Initialize
do set global taskList to call TinyDB1 .GetValue
tag " tasks "
valueIfTagNotThere " "
set ListView1 . Elements to get global taskList
call UrsAI2SideBar1 .SetSideBarItems
ListItems make a list " Home::home "
" About::info "
" Logout::logout "
when deleteBtn .Click
do remove list item list get global taskList
index ListView1 . SelectionIndex
set ListView1 . Elements to get global taskList
call TinyDB1 .StoreValue
tag " tasks "
valueToStore get global taskList
set global totalLists to get global totalLists - 1
set totalLists . Text to get global totalLists
when UrsAI2SideBar1 .Item3Selected
Title
do set Home . Visible to false
set Work . Visible to false
set About . Visible to true
call UrsAI2SideBar1 .Hide
open another screen screenName Login
when ClearBtn .Click
do set global taskList to create empty list
set ListView1 . Elements to get global taskList
call TinyDB1 .StoreValue
tag " tasks "
valueToStore get global taskList
set global totalLists to 0
set totalLists . Text to get global totalLists
when updateBtn .Click
do set editTxt . Text to ListView1 . Selection
set mainScreen . Visible to false
set editScreen . Visible to true

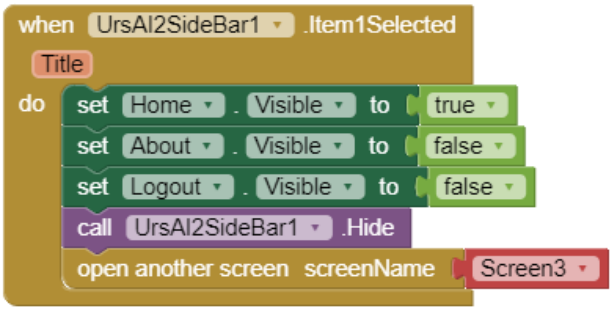

Home
About
Logout
Add
Clear
CheckMate!
My To-Do List
Enter task
Add
Total:
Search list...
Update
Delete
Clear
CheckMate!
My To-Do List
Enter task
Submit

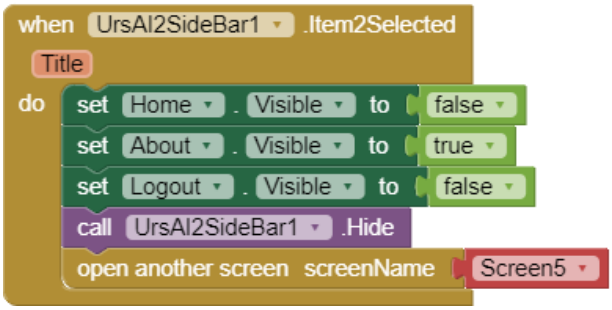
Screen 5


when Screen5 .Initialize
do call UrsAI2SideBar1 .SetSideBarItems
ListItems make a list
" Home::home "
" About Us::info "
" Logout::logout "


when Button1 .Click
do call UrsAI2SideBar1 .Show


when UrsAI2SideBar1 .Item3Selected
Title
do set Home . Visible to false
set About . Visible to false
set Logout . Visible to true
call UrsAI2SideBar1 .Hide
open another screen screenName Login


when UrsAI2SideBar1 .Item1Selected
Title
do set Home . Visible to true
set About . Visible to false
set Logout . Visible to false
call UrsAI2SideBar1 .Hide
open another screen screenName Screen3


when UrsAI2SideBar1 .Item2Selected
Title
do set Home . Visible to false
set About . Visible to true
set Logout . Visible to false
call UrsAI2SideBar1 .Hide
open another screen screenName Screen5

CheckMate!

About Us

Welcome to CheckMate!

At CheckMate!, we are a passionate team dedicated to creating tools that enhance productivity and streamline your daily tasks. Our mission is to deliver a seamless user experience and continuously improve our app based on your feedback.

Our Vision

Our vision is to empower individuals and teams to achieve their goals effortlessly. We believe that effective task management is key to success, and we strive to provide innovative solutions that make this process as easy and efficient as possible.

Our Mission

Simplify Task Management: Provide an intuitive platform that helps you organize your tasks, set priorities, and meet deadlines.
Enhance Productivity: Offer features that boost your efficiency, allowing you to focus on what truly matters.

Features:

1) Easy Task Management: Quickly add, edit, and delete tasks to keep your to-do list up to date.

2) Categorization: Organize

categories for better clarity and focus.
3) User-Friendly Interface: Enjoy a clean and intuitive design that makes task management a breeze.

About the Team:

CheckMate! is developed by a passionate team dedicated to creating tools that enhance productivity. Our goal is to deliver a seamless user experience and continuously improve our app based on your feedback.

Join Our Community

We invite you to join our growing community of users who are committed to achieving their goals and managing their tasks more efficiently. Connect with us on social media, share your success stories, and stay updated with our latest features and updates.

Contact Us

We value your feedback and are here to help. If you have any questions, suggestions, or need assistance, please feel free to contact us at checkmate58@gmail.com.

Thank you for choosing CheckMate! We hope it helps you achieve your goals and manage your tasks more efficiently.

1. Application

CSC264 - Individual Project Rubric (25%)

No	User Interface & Information		0	1	2	Weight	Scored Earned (1-2)	Total earned	Actual Score
1	Intuitive and user-friendly design / Layout design	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
2	Responsive design for various screen sizes	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
3	Contains the home page, information about us, or pages to view related information	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
4	Effective use of navigation	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
	Functionality								
5	Implementing CRUD Operation	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
6	Contains system authentication	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
7	Implementing the main process/module of the system (achieving main goal & objectives)	10	Show limited awareness but not reflect to the goal at all	Shows awareness of Goal	Goal is exceptionally well focused	5	2	10	
8	Completeness of Application	10	not exist	Incorrect/ incomplete	Complete	5	2	10	
9	Entrepreneurial Experience	6	No entrepreneurial element	There is an entrepreneurial element	High-quality implemented entrepreneurial elements	3	2	6	
10	User Experience (UX) - a user interacts with and experiences a system (useful, usable, findable, desirable, accessible, credible, and valuable without conscious thought)	10	Not achieving or achieve only 1 of UX pillars	Achieving 2-4 UX pillars	Achieving 5-7 of UX pillars	5	2	10	
	Deployment and Performance (5								
11	Successful deployment on online/offline server or hosting platform (Google Play/Apple Store)	4	not deploy	Deploy on offline server	Deploy on online server	2	2	4	
	TOTAL POINT WEB	**100**						**100**	
							TOTAL 25%	25	

2. Report

2. Individual Project Report (5%)

No	Tasks	0	1	2	Weight	earned (0-2)	Total earned	Actual Score
1	Entrepreneurial Mind & Opportunity	No entrepreneurial idea for value adding/solving user/customer needs.	Business idea is clear but does not fulfill the realistic user/customer needs.	Able to mobilize the idea to become opportunity according to the business strategy and fulfill the user/customer needs.	5	2	10	
2	Introduction to system -problem statement -objectives -scope of project -project significant	Not able to write ideas systematically and with limited clarity and accuracy	Able to write ideas systematically AND fairly clearly and accuracy	Able to write ideas systematically AND with excellent clarity and accuracy	5	2	10	
3	Flow Chart	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
4	Functional Design -functional requirement / process design	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
5	Interface Design -Block codes	Not achievable or below expectation.	Achievable but level of complexity is below expectation.	Achievable and acceptable level of complexity.	5	2	10	
	TOTAL POINTS					10	50	
						TOTAL 5%	5	

3. Presentation

2. Individual Project Presentation (5%)								
		1	2	3	4	5	SCORES	
No	Assessment	Weak	Fair	Good	Very Good	Excellent	EARNED (1-	Actual Score
1	Delivery of ideas (Communicative ability)	Not able to deliver ideas clearly and require major improvements	Able to deliver ideas and require further improvements	Able to deliver ideas fairly clearly and require minor improvements	Able to deliver ideas clearly	Able to deliver ideas with great clarity	5	
2	Confident and articulate delivery of ideas (Communicative ability)	Not able to deliver idea confidently and articulate	Able to deliver ideas with limited confidence and effect and require further improvements	Able to deliver ideas fairly confidently and effectively and require minor improvements	Able to deliver ideas confidently effectively and articulately	Able to deliver ideas with great confidence, effect and articulately	5	
3	Understand and respond to questions (Communicative ability)	Not able to understand and respond to a question	Able to understand and answer questions but not able to accurately answer the question	Able to understand and answer questions satisfactorily	Able to respond to questions well	Able to fully understand and respond to questions very well	5	
4	Clarity, accuracy and systematically written academic discourse (Slide content)	Not able to write ideas systematically and with limited clarity and accuracy	Able to write ideas systematically BUT with limited clarity and accuracy	Able to write ideas systematically AND fairly clearly and accuracy	Able to write ideas systematically, clearly and accuracy	Able to write ideas systematically AND with excellent clarity and accuracy	5	
						TOTAL MARKS	20	
						TOTAL 5%	5	