

# Enterprise groupware computing solution with engagement

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**AMC Engineering College Bangalore**  
**Master of Computer Application**  
**2021**

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# Presentation Agenda

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- **-Project Overview/Scope And Objective**
- **-Problem Statement**
- **-Project Metrics**
- **-Existing System**
- **-Objective of the Proposed System**
- **-Review Of Iteration**
- **-System Configuration**
- **-Project Deliverables**
- **-Description of 3<sup>rd</sup> Party Software Packages used**
- **-Software Development Model**
- **-System Design (Architectural and Detailed)**
- **-Expected Outcome Of The Proposed System**
- **^System Demonstration**
- **-Results And Discussion**
- **References**



# Project Overview

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## **Categories of Groupware product**

- ❑ Email / Messaging
- ❑ Group Calendaring and Scheduling
- ❑ Conferencing products
- ❑ Workflow tools
- ❑ Group Document handling



# Scope and Objective

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- System Associates with multiple type of fog computing methodologies
- The system works on global scenario
- Dynamic provisioning on-demand is supported within the system
- Integrated dashboards will be available
- Scalable infrastructure help the organization to manage various types of analytical activities, operational activities, and media oriented activities on a larger scale with Global reference
- The main objective of the system is to consolidate single frame workability



# Project Overview and Scope and Objective

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## **User**

- Administrator
- Associate

## **Scope and Objective**

- Multiple teams can be regulated at the same time and these teams will be having individual rights to access the system and this will be done by the control panel which will be accessible only to the administrator.

# Scope and Objective

- The scope of the system is that by incorporating different types of wizards the users can have multiple operations conducted at the same time and this will be helpful for the organizations those who want multiple types of business projections on a global scale
- Other features...

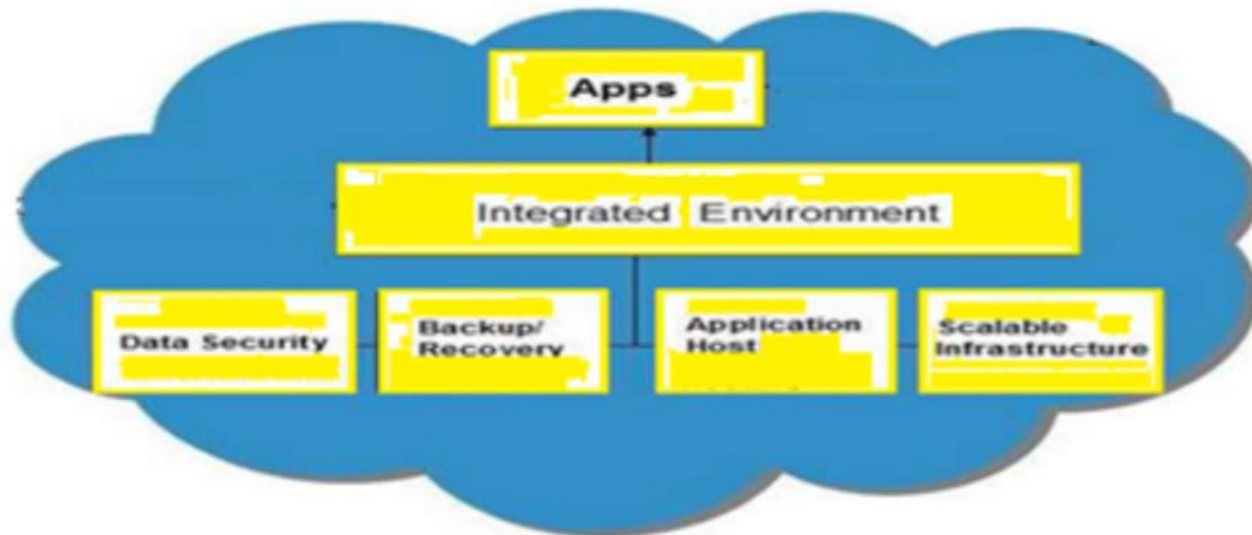


Figure : Integrated preference is shown

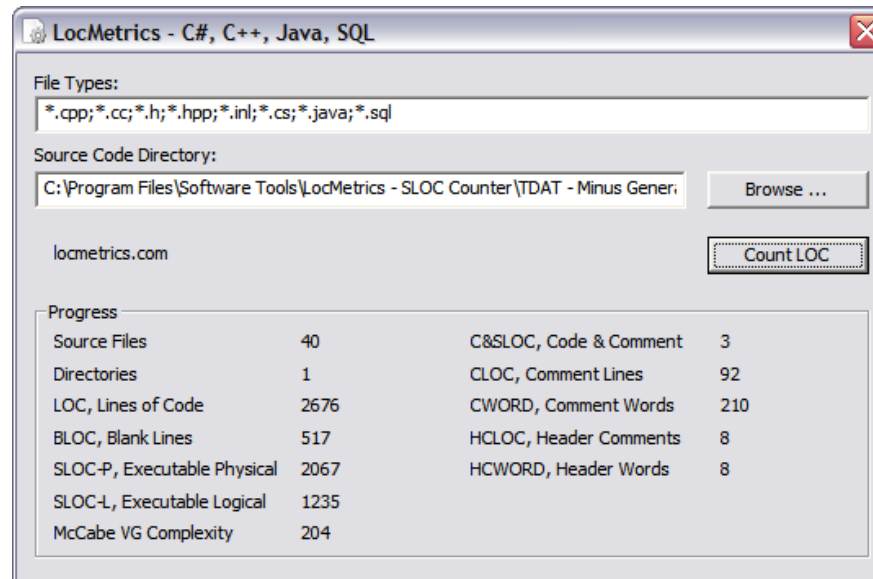


# Problem Statement

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- As the companies are working on a larger scale they have to manage media channels so the system provides multiple media channel integrations with various types of API and guidelines collections so that with proper authorization they can be controlled.
- Providing multiple frame status is quite difficult
- Providing various types of cloud references of resources
- Provided objectives of the settings related to the analytics
- The system also provides analytical information

# Project Metrics – Source Code



- Some additional metrics
  - Number of OO-classes: 19
  - Number of Requirements: 22
  - Number of pages of source code (\*.cs/\*.h): 63

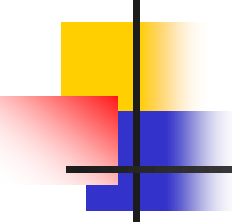




# Existing System

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- In the existing system the integrated infrastructure
- As multiple components are required for the environment setup
- we do not have multiple parallel framework workability which makes the control quite difficult.
- single Framework settings with multiple types

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- resources that are needed it's quite difficult in reference to the usage and accessibility control
  - The media integrated working is also quite important
  - Data management and user reference is also quiet difficult in existing system



# Objective of the Proposed System

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- In the proposed system all type of skeletal workability is supported and different types of parallel environment
- The scope of the system is that by incorporating different types of wizards
- The main objective of the system is to consolidate single frame workability with all types of scalable references and all types of fog computing support.



# REVIEW OF LITERATION

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- Each team and that will be performed within the system can also be defined with various types of backup system that will be directly integrated on a cloud platform
- The system provides a distributed mechanism which will be helpful to control all perception work from a single system with different types of oriented guidelines according to the requirements.
- companies are working on a larger scale they have to manage media channels so the system provides multiple media channel integrations with various types of API and guidelines collections.
- Multiple channel accessibility will also provide the flexibility to the organization as a multi activity.



# REVIEW OF LITERATION

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- Multiple channel accessibility will also provide the flexibility to the organization as a multi activity.
- The system also provides analytical information which will be also based on rich site summary coding that will provide the users the required information related to the business plan perception.
- Variation of the views are also supported within the system



# FUNCTION REQUIREMENT

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## View Design

Use Case Name	View designs
Trigger	Settings
Precondition	Admin access required
Post-condition	Channels added
Process	<ul style="list-style-type: none"><li>• Frame view designs and applicability of different types of environment</li><li>• Each frame design comes with settings</li><li>• User incorporation for particular page also require</li></ul>



# FUNCTION REQUIREMENT

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## Knowledge Analytic

Use Case Name	Knowledge analytic
Trigger	Settings and input
Precondition	Authentication needed
Post-condition	Data reports provided
Process	<ul style="list-style-type: none"><li>• Knowledge analytic we add</li><li>• Multiple subject will be added and accordingly the information will be retrieved.</li></ul>



# FUNCTION REQUIREMENT

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## **Technology-flexibility**

- Cross platform working with security consideration should be available for the effective trusted working
- Virtualization support will be inherited as the same identity can be used by different companies at the same time
- The selection of a particular identity should provide a scaling and structuring for the utility computing support
- All critical structuring for various tools on a central Home screen system will be provided
- Third party essentials will be integrated to provide the economic benefit to the users with consolidated working and control



# Nonfunction Requirement

- Nonfunctional requirements will help to process the workability properly in the real-time
- there for the users to understand the concept, scalability is provided to manage multiple projects

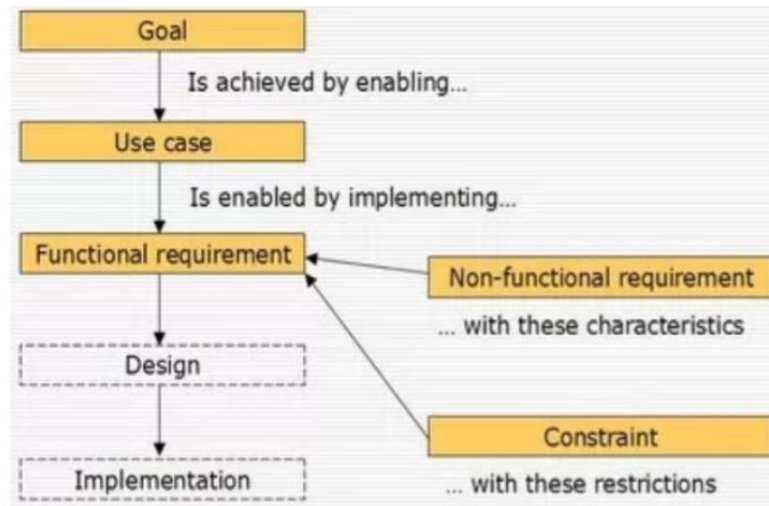


Figure- Descriptive requirements understanding is provided



# NON FUNCTION REQUIREMENT

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## **Non-functional requirements**

Non-functional requirements will help to process the workability properly in the real-time

## **Scalability**

scalability is provided to manage multiple projects, the reason by the system is being designed for providing proper scalability to the users



# SYSTEM CONFIGURATION

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## **Hardware Requirement Components**

- ✓ Computer processor
- ✓ Clock speed
- ✓ Hard Disk
- ✓ Space RAM

## **Software Requirement Components**

- ✓ 4th generation Intel core i3
- ✓ 1.7 GHz
- ✓ 500GB
- ✓ 4GB



# SYSTEM CONFIGURATION

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## **Hardware Requirement Specification**

- ✓ Operating System
- ✓ Visual studio 2019
- ✓ NET Framework 4.7.1
- ✓ Sql server 2014/Oracle
- ✓ Cloud service integrations

## **Software Requirement Specification**

- ✓ Windows
- ✓ To handle C# code
- ✓ To handle environment
- ✓ To maintain database
- ✓ Amazon S3 or EC2



# Project Deliverables

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- Documentation
  - Project Proposal/Description Document
  - Concept of Operations (CONOPS) Document
  - Software Requirements Document
  - Project Management Plan Document
  - Architectural Function (High-Level) Design Document
  - Detailed Design Document
  - Nonfunctional Requirements
  - Scalability Plan Document Microsoft Visio
  - User's Manual Document
  - Existing System Installation Document
  - Proposed System Requirements Document
  - Project Presentation Slides
- Software
  - Visual studio to handle C# Source Code (\*.cs/\* files)
  - All Visual Studio Project Related Files
  - .NET Framework 4.7.1
  - Executable Program File and any Additional Dynamic Link Libraries (DLL)
  - Cloud service integration



# 3<sup>rd</sup> Party Software Packages

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- Qt
  - From Docker for Windows
  - Object-Oriented Visual Studio2017 package for GUI development
  - Open Source, freely available V 4.2.2 used
- Qwt
  - ASP.NET MVC Application to Windows Containers
  - Extension of Qt that added ability to plot graphs
  - Open Source, freely available V 5.0.1 used
- FFTW (Fast Fourier Transform of the West)
  - Available from MIT
  - C#-based library that assists with CLI computations/algorithms
- Helped reduce Development risks, but introduced learning curve risk

# Software Development Model

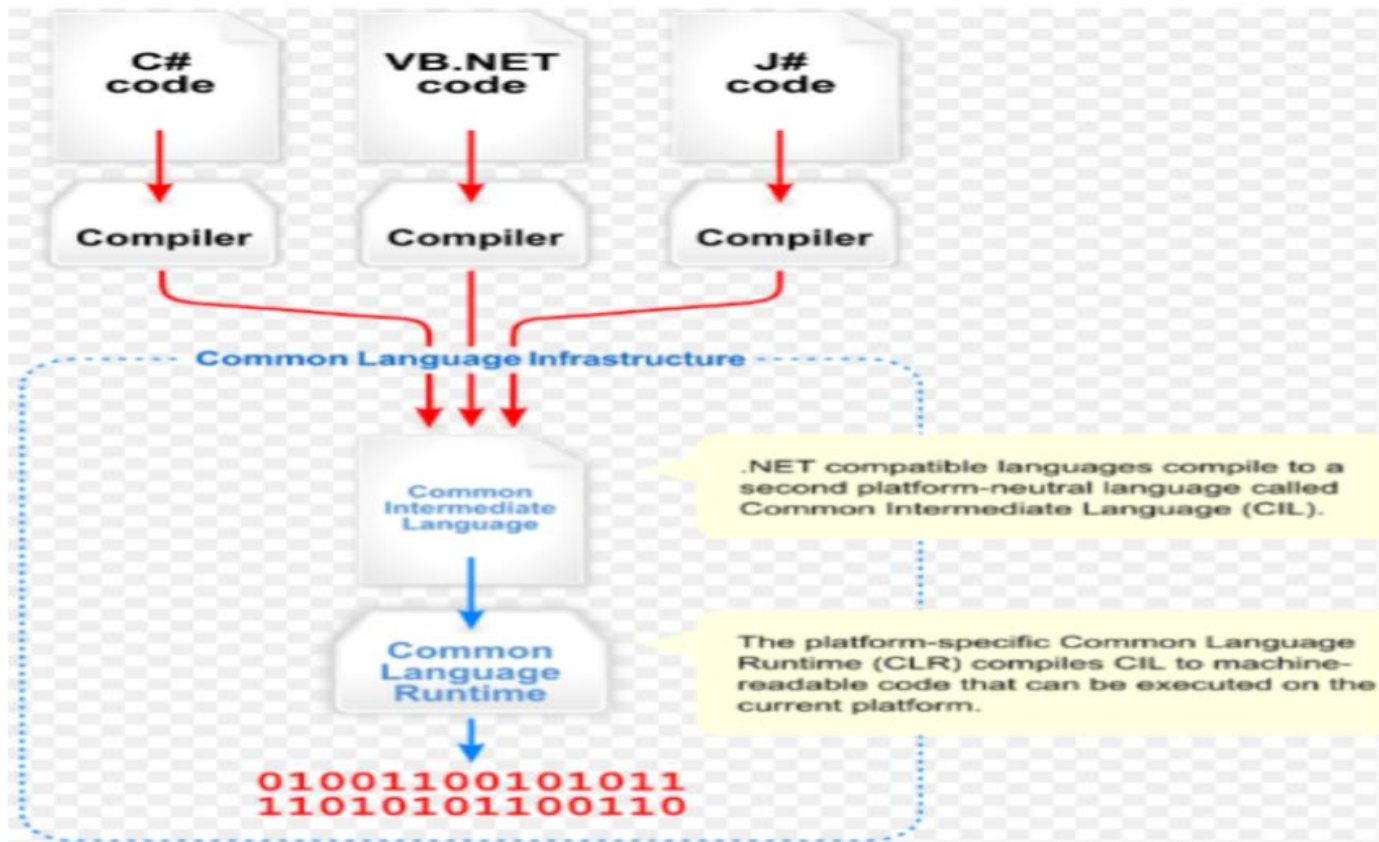
## ■ Feasibility study

- Technical projections will be undertaken within the feasibility study and even we will discuss that how the related operations in real time will be managed
- Technical references are quite important to recognize
- Integrates some aspects of Spiral



# System Architecture Design – Package Diagram

## ASP.NET MVC Application to Windows Containers





# System Architecture Design – Use Case Model

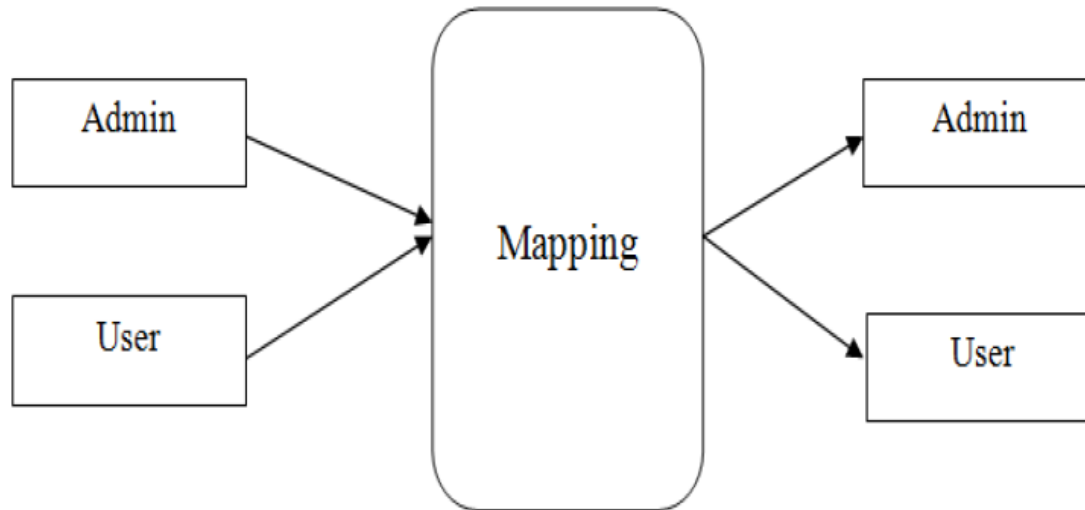


Figure 5.10: Level-0 DFD diagram

# System Architecture Design – Use Case Model

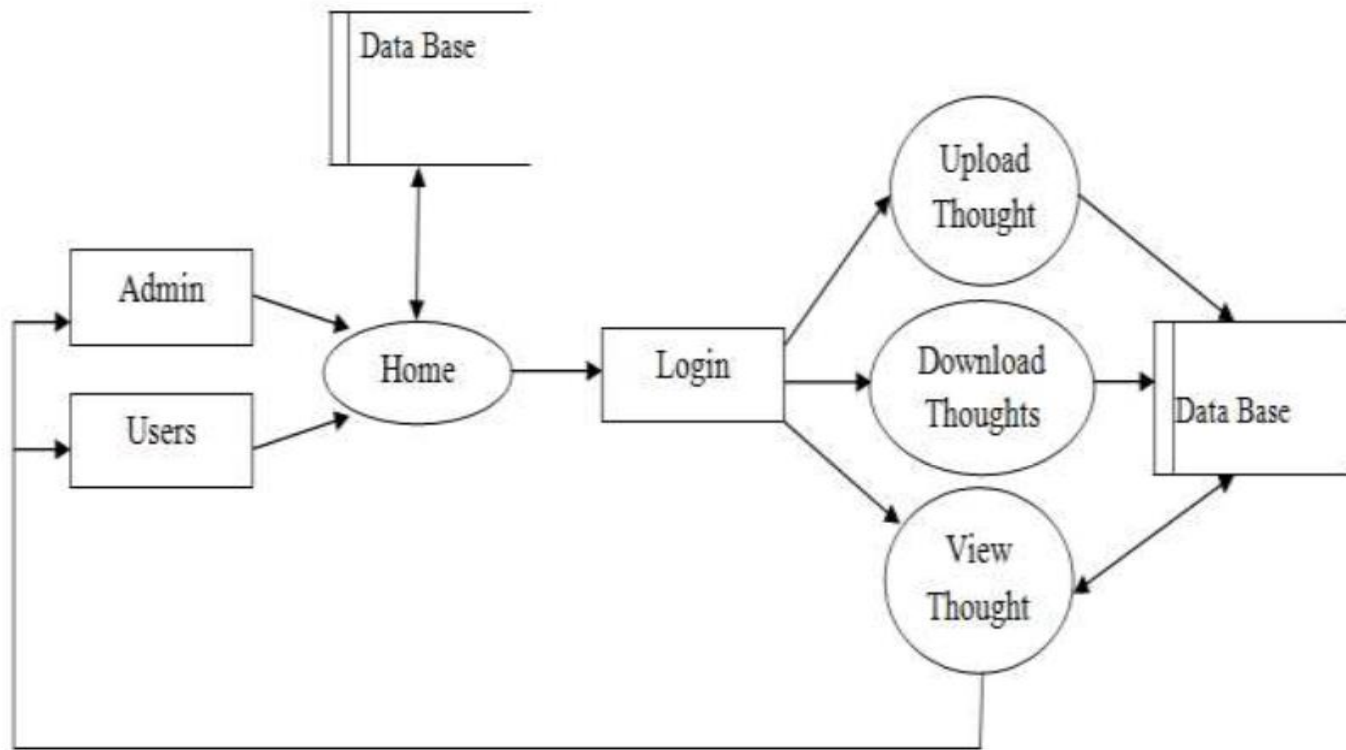
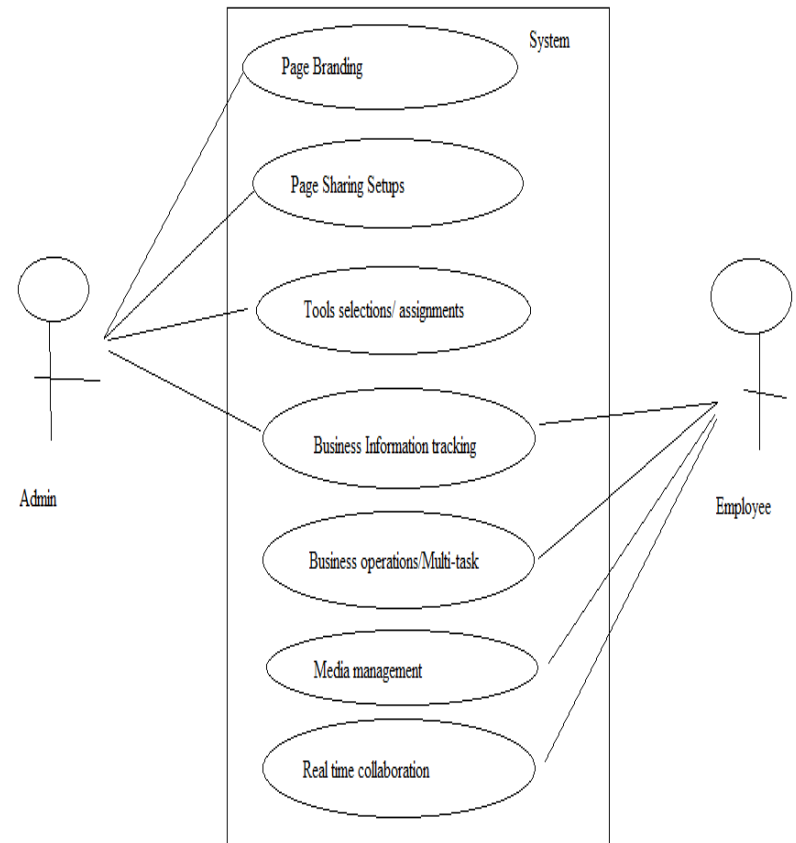
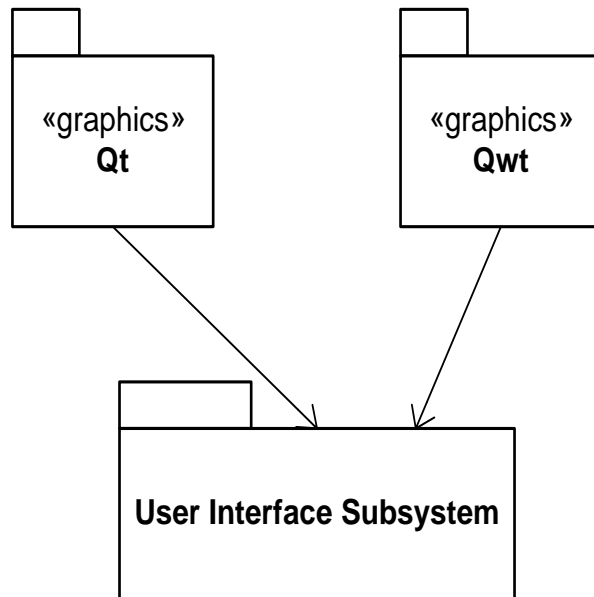
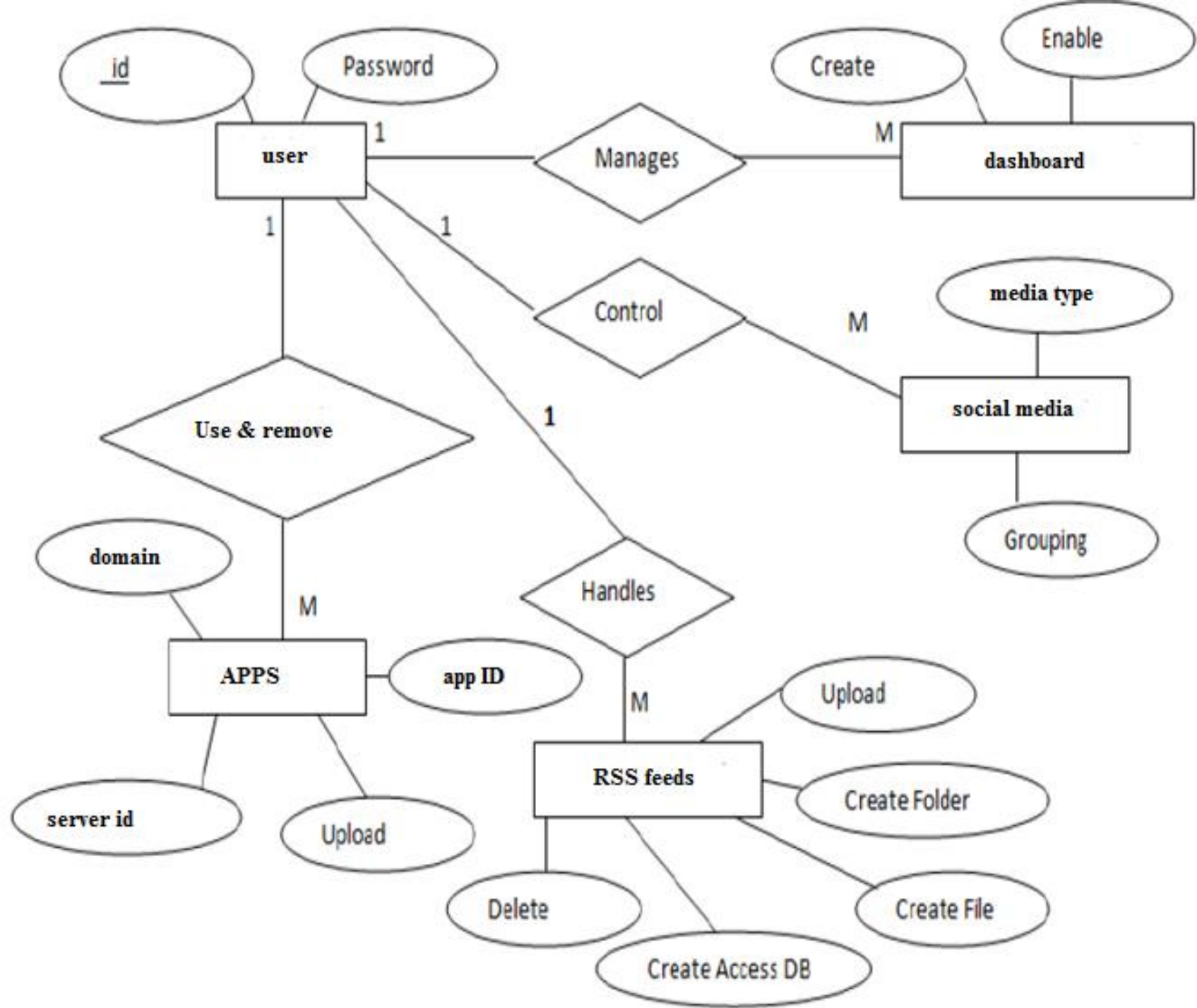


Figure 5.11: Level-1 DFD diagram

# System Architecture Design – Subsystem Breakdown





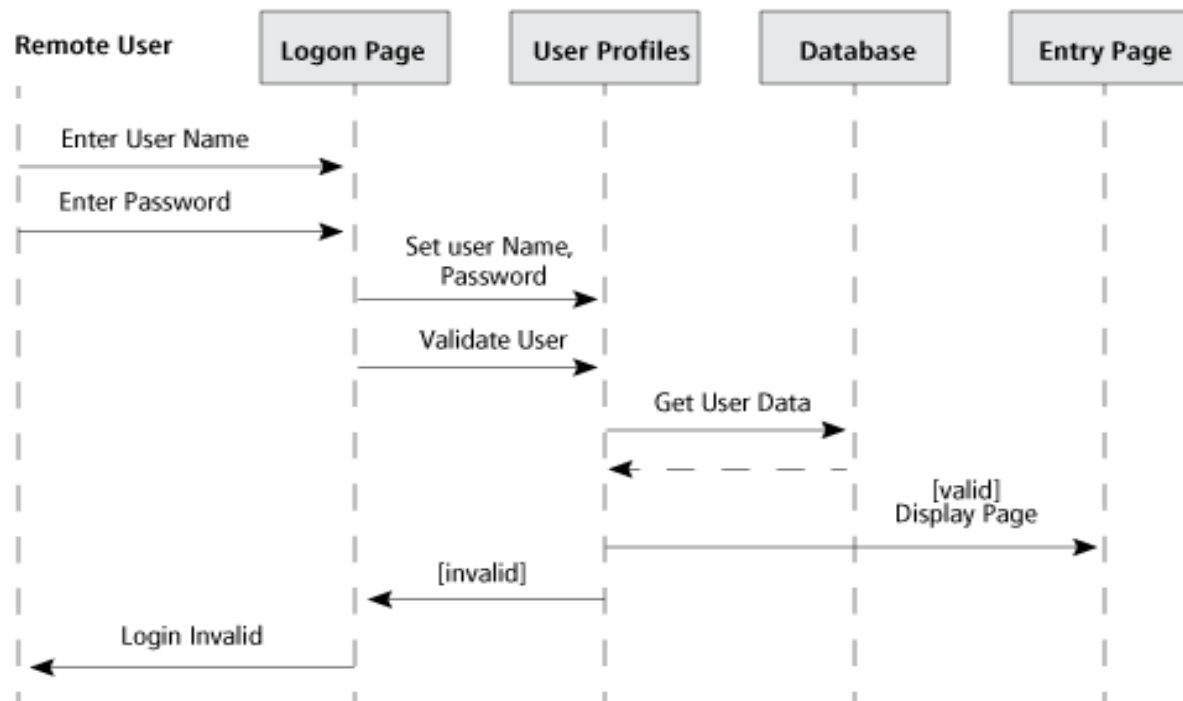


# System Detailed Design - Strategy

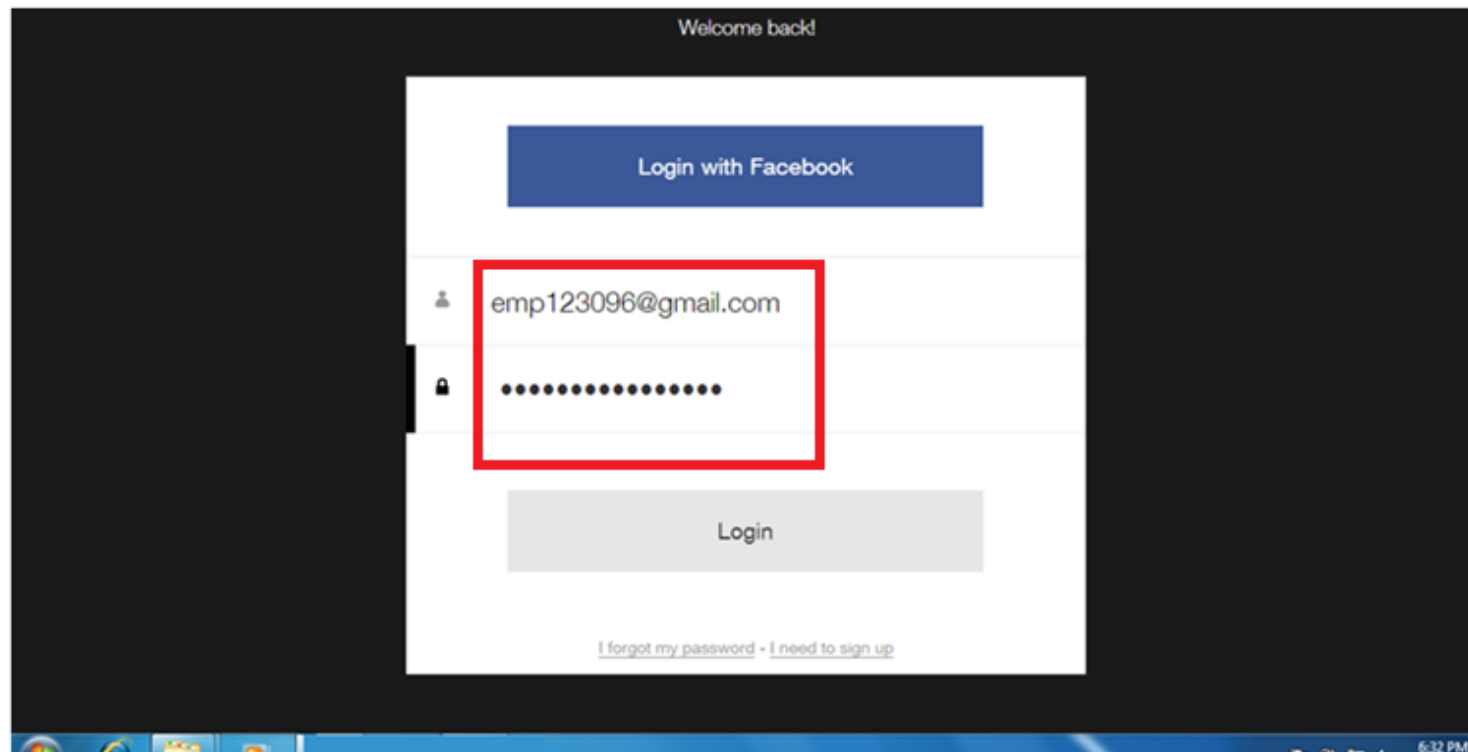
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- Define the Static Model
  - Use UML Class Diagrams
  - Assign each class to a subsystem
  - Define inheritance, associative, and compositional relationships
  - Define methods
- Define Dynamic Model
  - Use UML Sequence Diagrams
  - Create a Sequence Diagram for each Use Case
- See Word document for a quick review

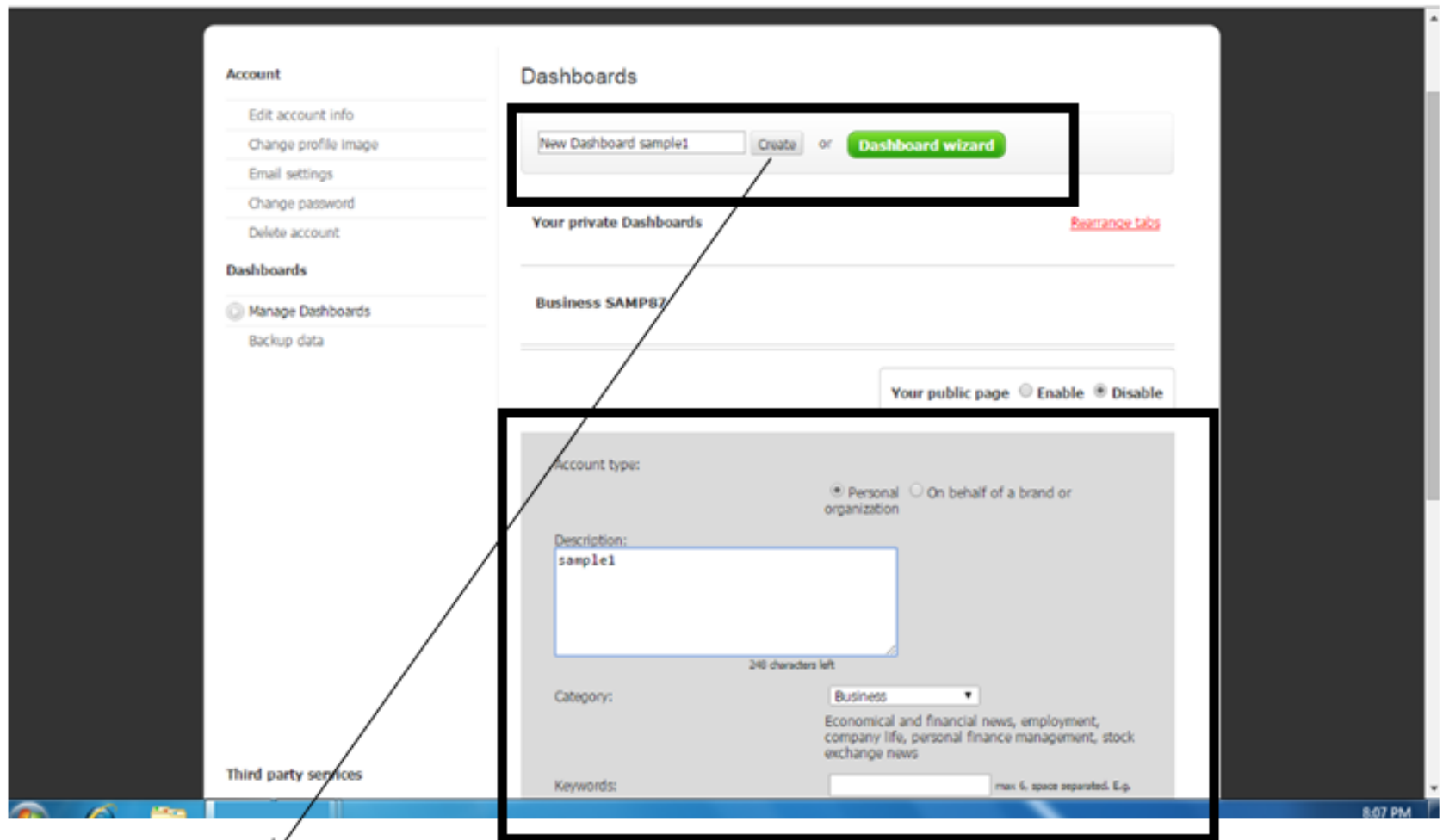
# Sequence diagram



# Expected Outcome Of The Proposed System or System demonstration



Login page



Working dash selections and settings



### Account

Edit account info

Change profile image

Email settings

Change password

Delete account

### Dashboards

Manage Dashboards

Backup data

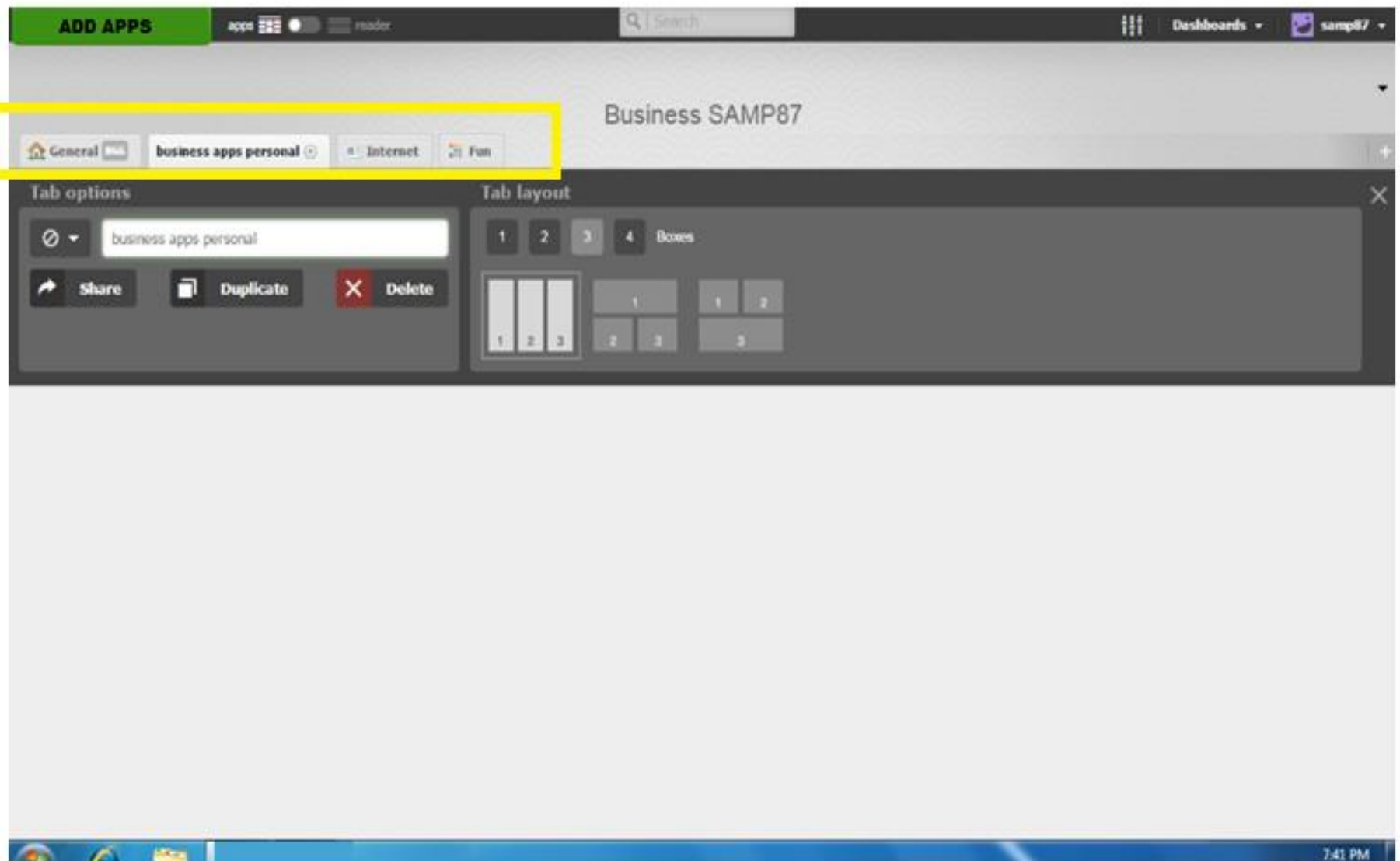
### Backup your data

Dashboard : All Dashboards ▼  
All Dashboards  
Business SAMP87

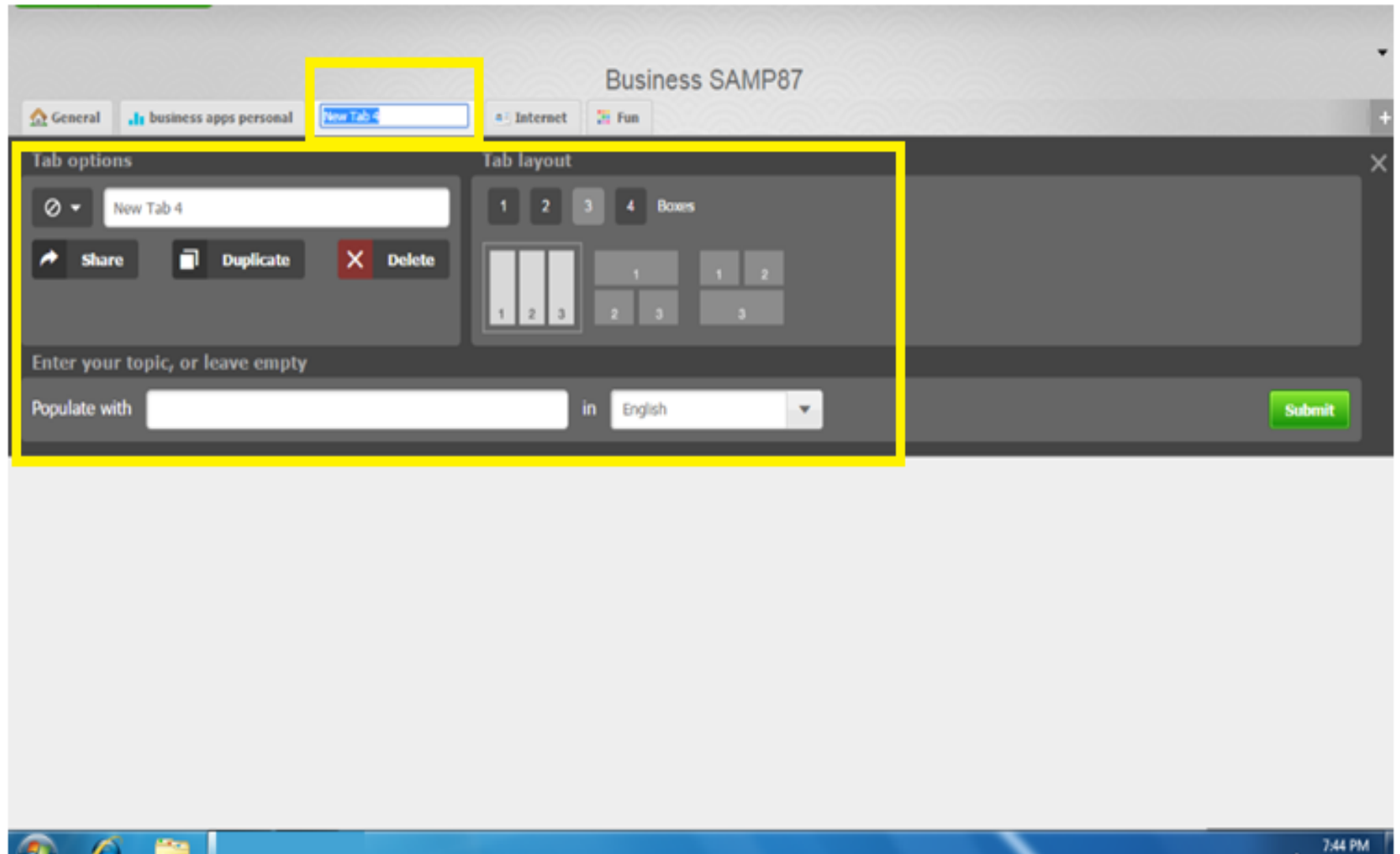
Export

Click 'Export' to download .

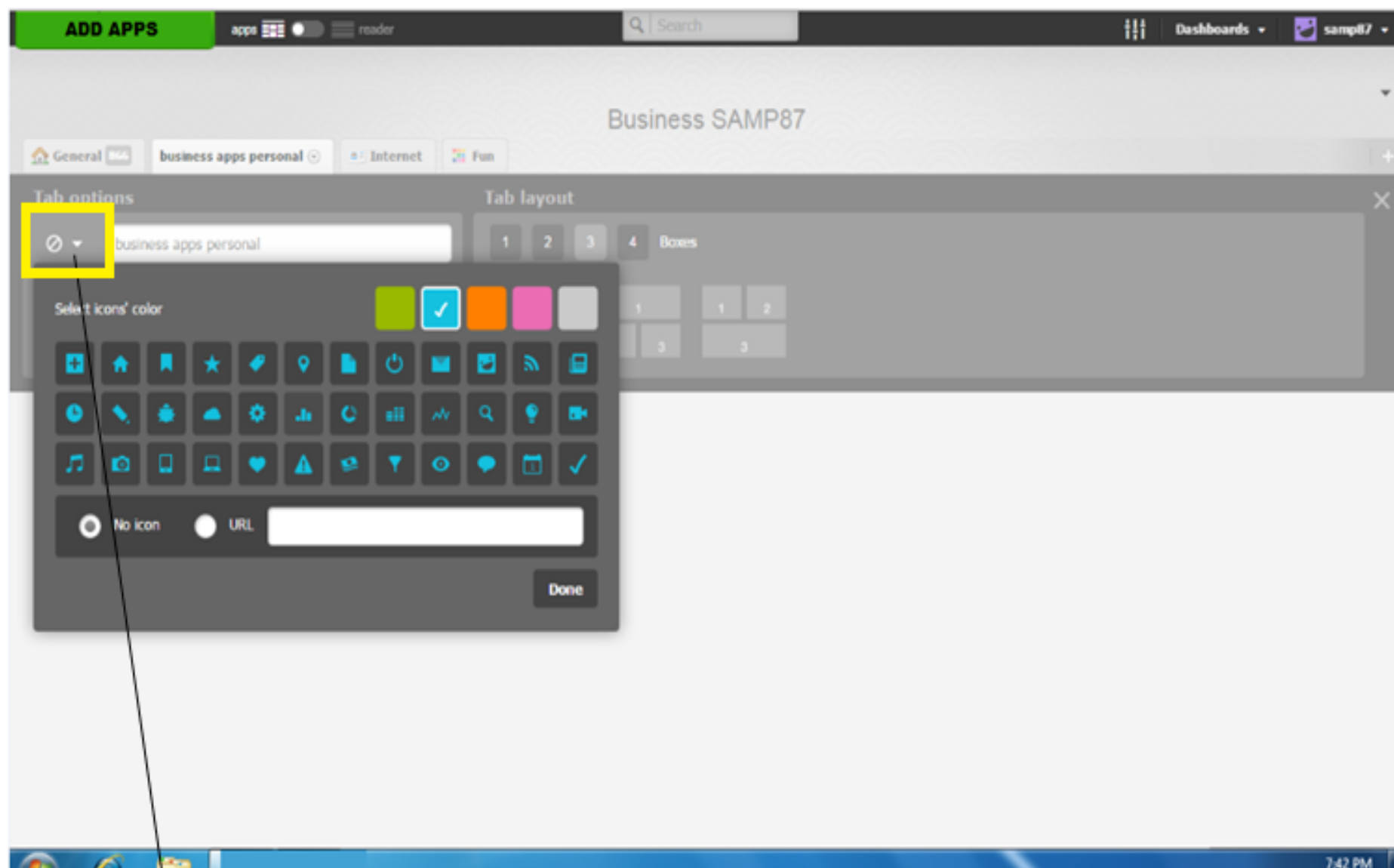
Backup



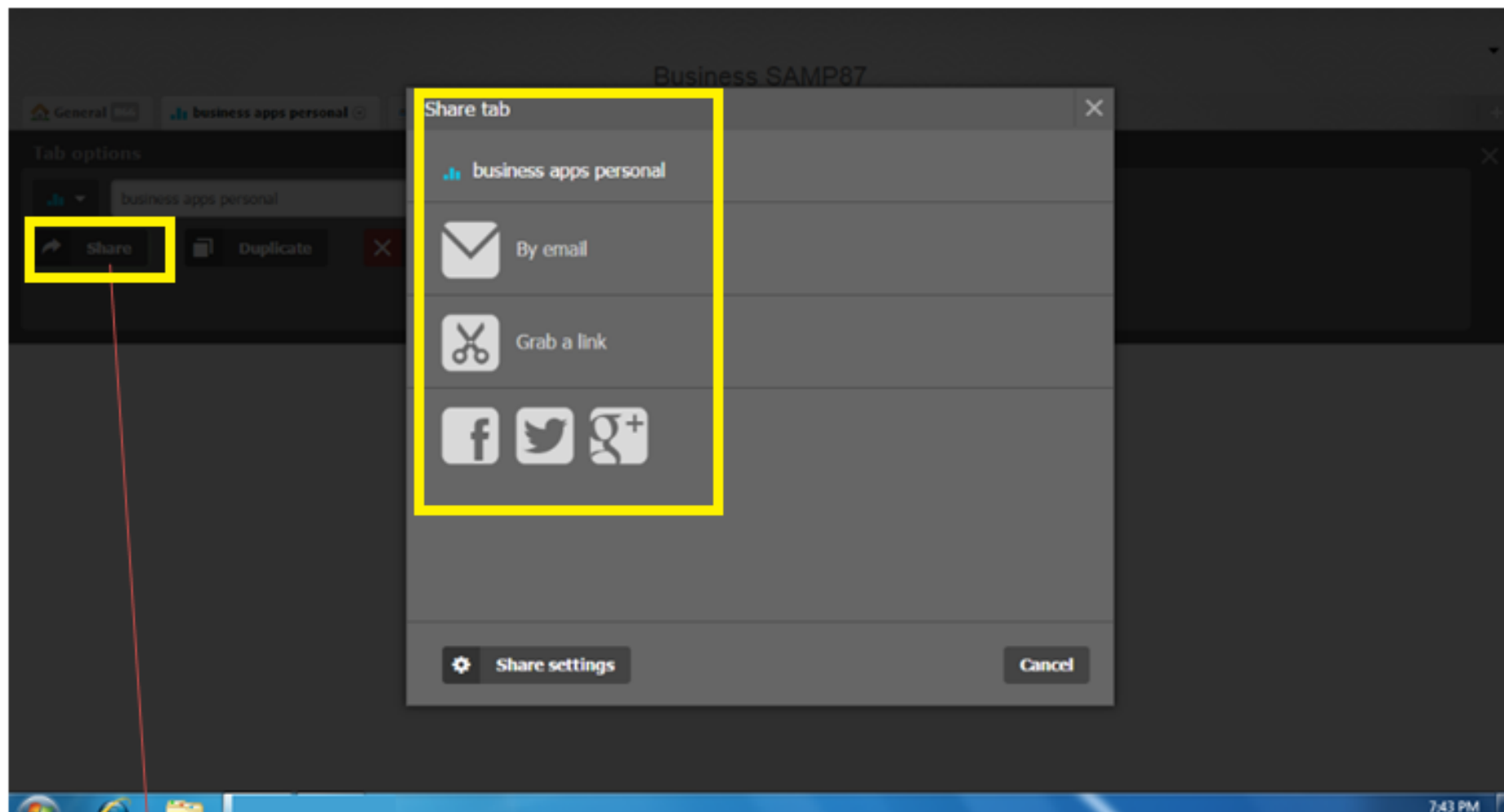
Design of different pages for the working



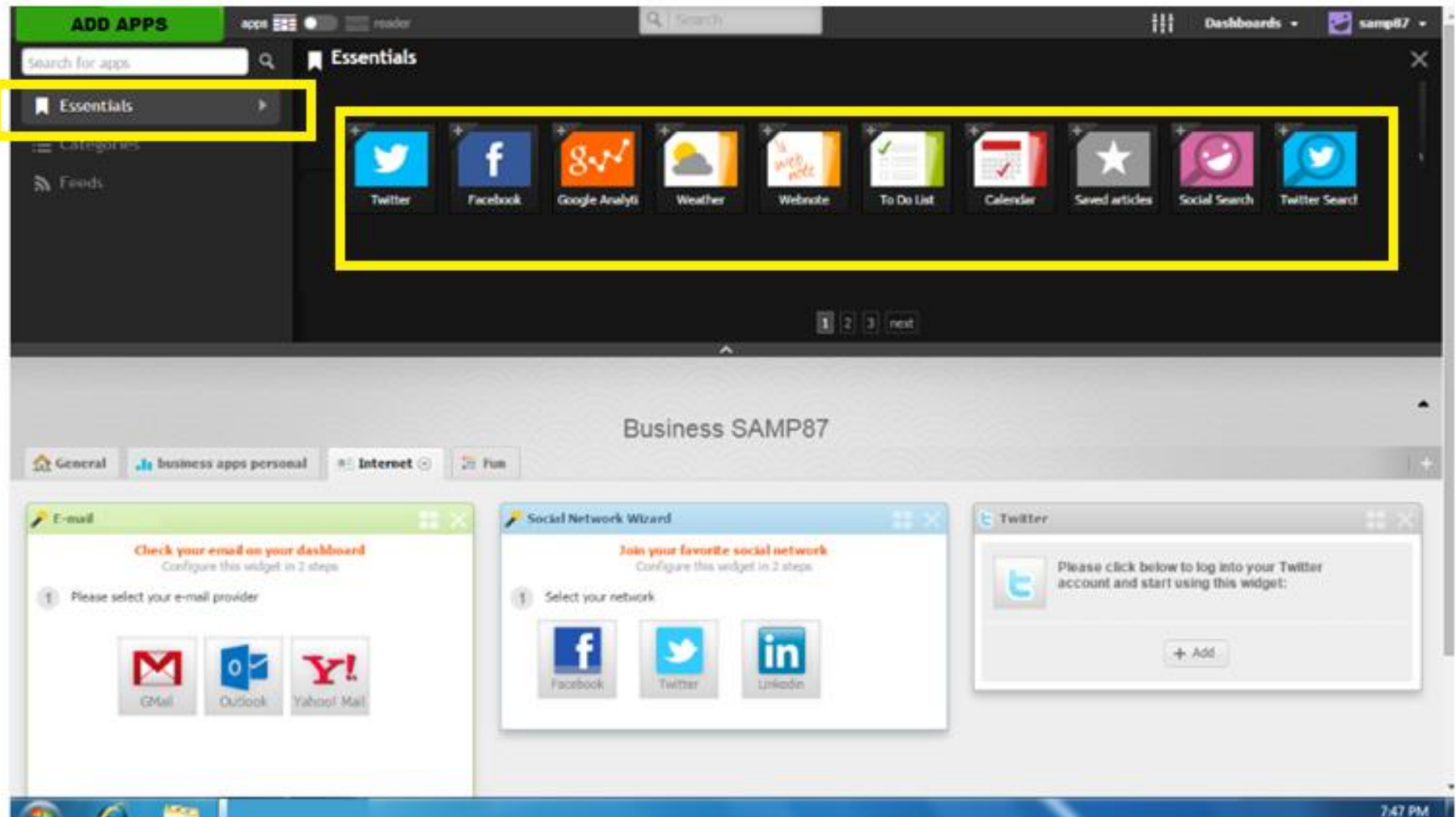
Additions of multiple pages



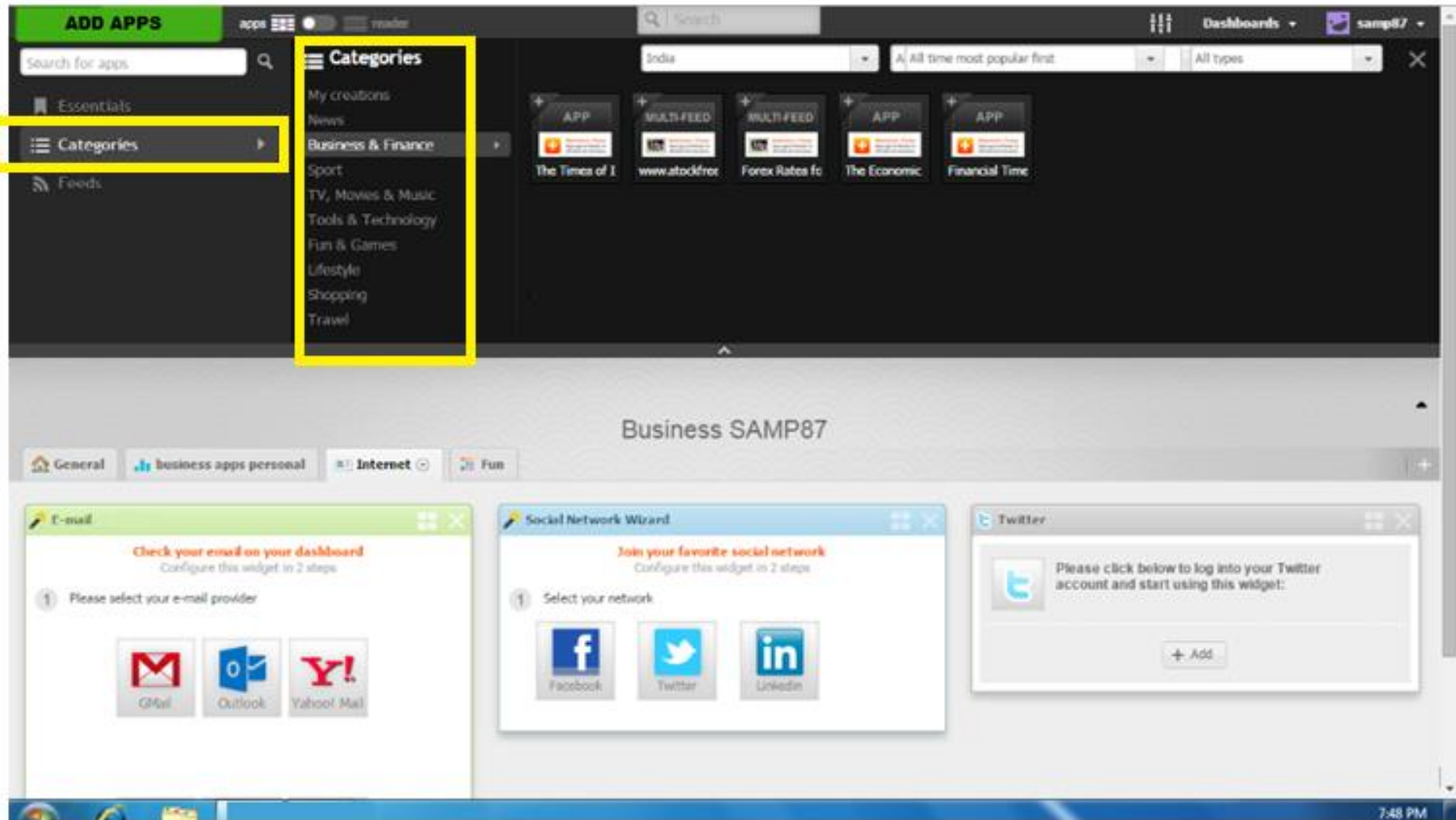
Custom settings for the pages



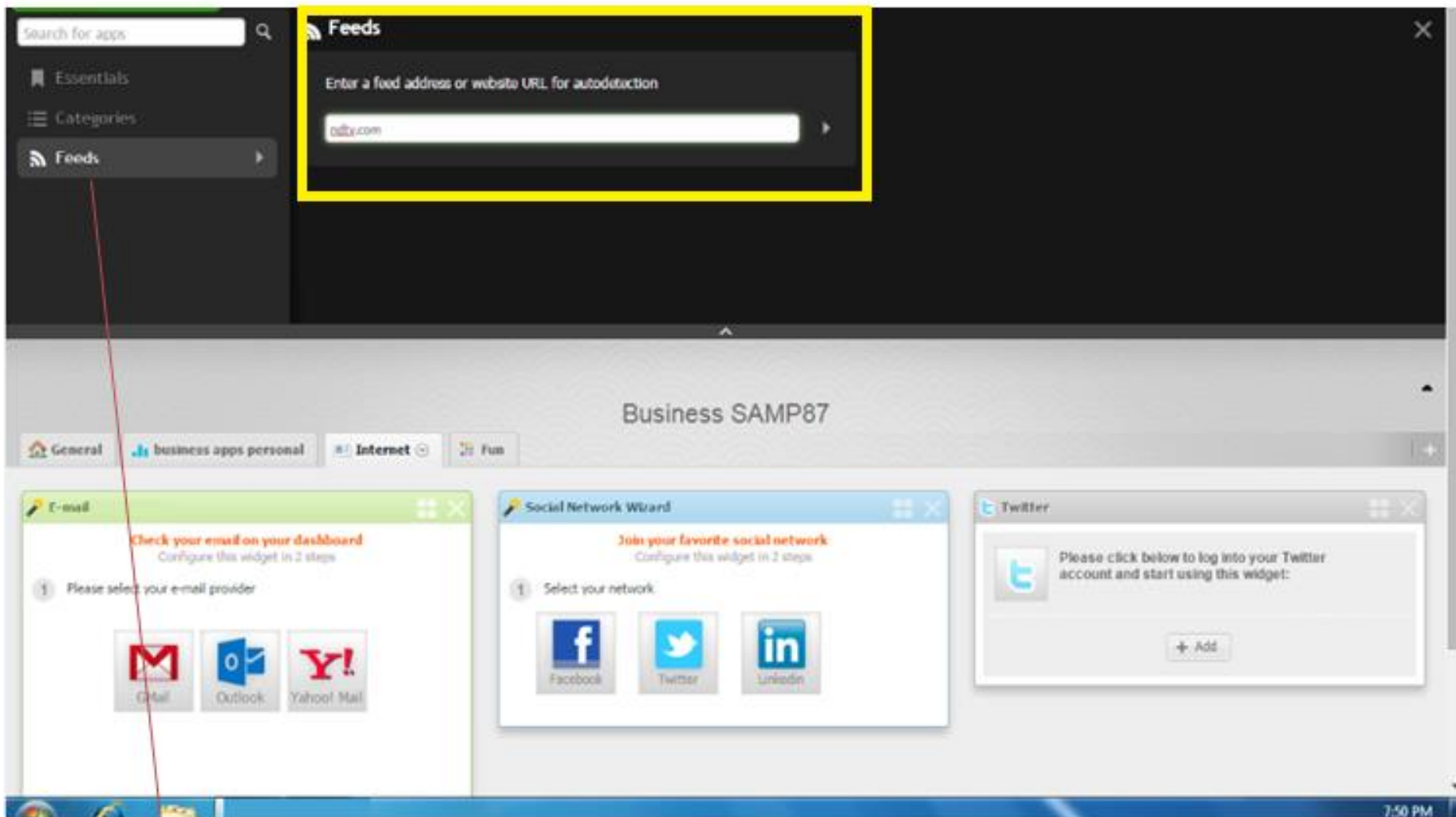
Sharing options for the particular page



Add-on provided for the working

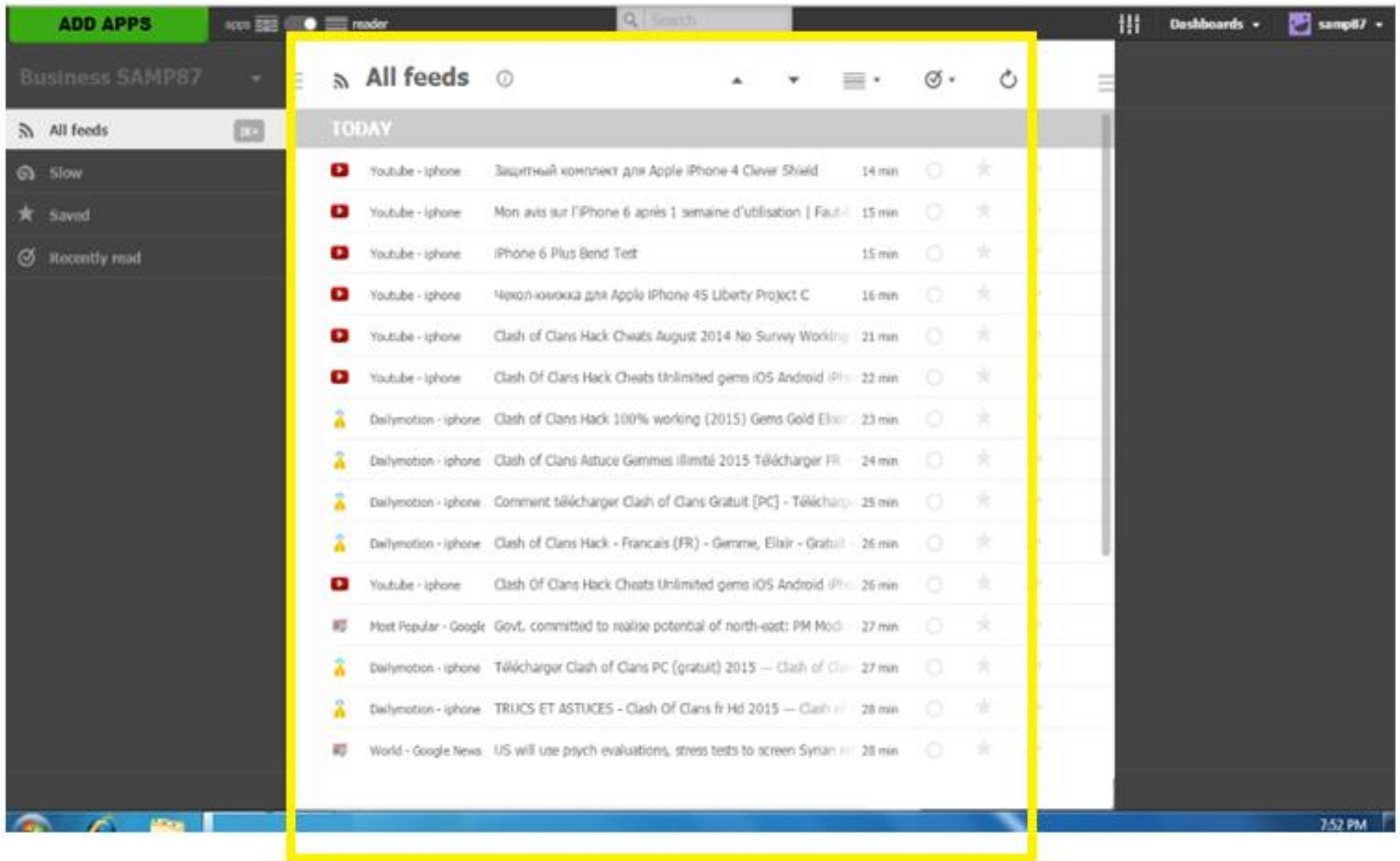


Categories and selections

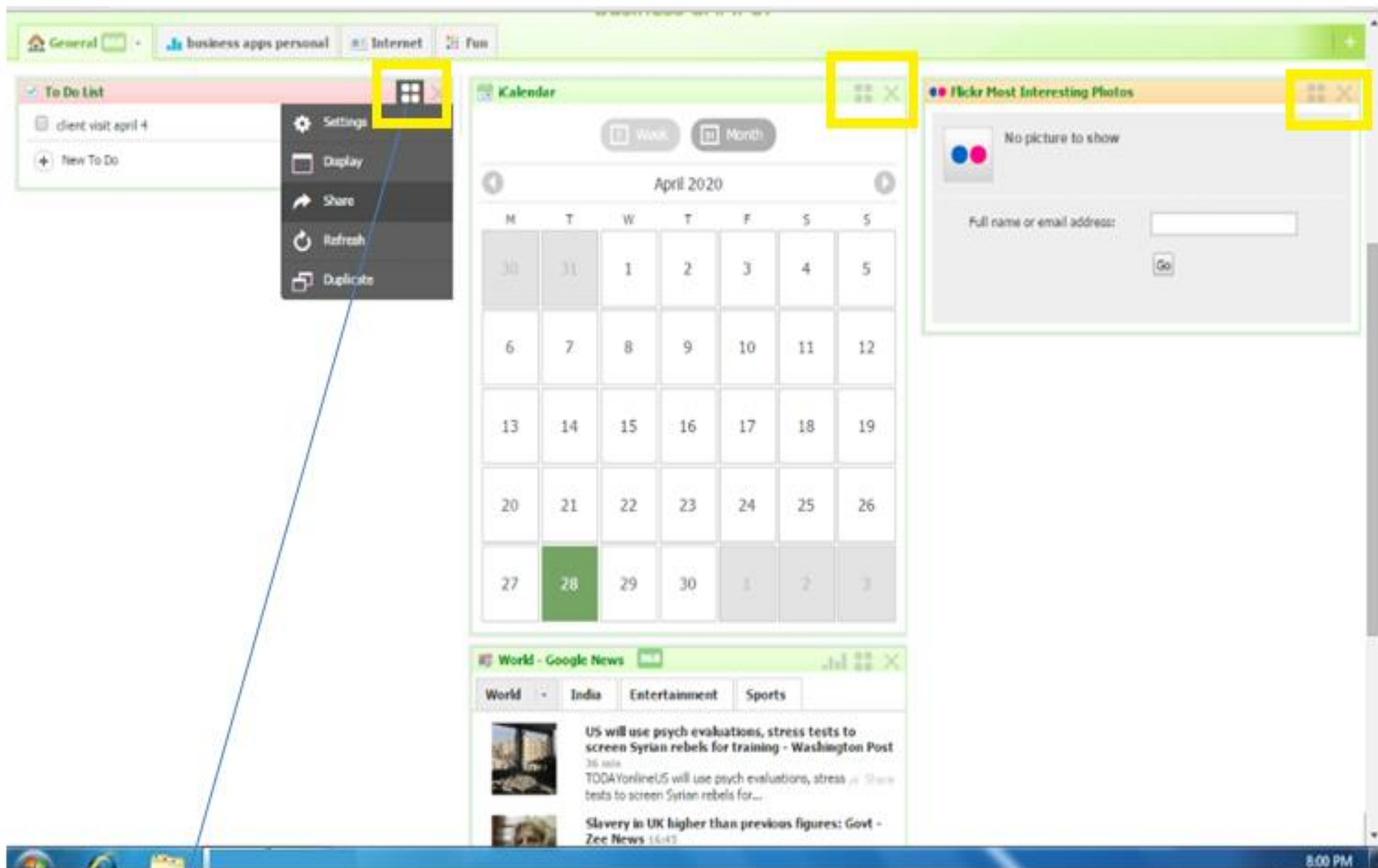


Provisions of the information tracking





Detailed information provided, even customization can be referenced



Different page settings



# Results And Discussions

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## **Conclusion**

- Regulation based multiple scenario accomplishments can be properly defined with the help of the system as when we have channel various types of pages
- We have also acknowledged that each page that is being referenced can be channel with multiple settings and elaborated editing is provided for managing the considerations which is very much helpful.
- As the users were added multiple mechanism for the invitations and for the authentications were also presented which is helpful



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## **Limitations**

- The system includes the facility to arrange the work as required plus multiple activities can be organized to provide effective way to have all in one work review with a flexible time understanding. The accomplishment can be achieved with all authenticated users that can be clubbed to the system all the single workspace defined by the admin as multiple setup options will be provided to conclude the monitoring and work liability requirements. All factors are available to help the trade management in respect to the requirements of the resources are included.



# Future Enhancement

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- Enhancement makes the system more compatible and directly implied the references for the usage provides more considerable Optimization in the future so we are regularly auditing the new requirements and accordingly the provisions will be added-
- The most important reference that has to be channeled within the system is to provide the users with a set of new tools as it is required
- More information channels in the compatibility to enhance more Complex data information can be added in the future and even if required more graphical display aspect can be added
- Reports can be improved and more filters can be provided



# References

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- Internet
- Mr. Ganesh D (Team Lead)  
Tangent ProBiz Bangalore

All equipment gadgets have setup settings that can influence execution and framework work.

Equipment design data may include:

- Accessible memory
- Power the board highlights
- Gadgets that are associated, for example, modems, plate drives and sequential ports.



# References

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## **Text References**

- 1) Operating System: Windows
- 2) Visual studio 2019: To handle C# code
- 3) NET Framework 4.7.1: To handle environment
- 4) Sql server 2014/Oracle: To maintain database
- 5) Cloud service integration- Amazon S3 or EC2

## **Web reference**

- 1) [www.scribd.com](http://www.scribd.com)
- 2) [www.wikipedia.com](http://www.wikipedia.com)
- 3) <https://www.techopedia.com//definition/29998/system-design>
- 4) <http://www.visual-paradigm.com/guide/data-flow-diagram>



# Comments

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- Thank you!..