

Project
ReportOn
Way2News (Photo Editing)

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CERTIFICATE

This is to certify that the project work titled “**Way2News**” is a bonafied project work submitted by **D. Sai Teja** in the department of COMPUTER SCIENCE AND ENGINEERING in partial fulfillment of requirements for the award of degree of Bachelor of Technology in Computer science and engineering for the year 2022-2023 carried out the work under the supervision.

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INDEX

S.NO	INDEX	PAGE NUMBER
1	Abstract	5
2	Introduction	6
3	purpose	7
4	Scope	7
5	Requirement Specification	8-9
6	Analysis and design	10-11
6.1	Usecase	12-14
6.2	ER Diagram	15-16
7	Implementation and system testing	17
8	Project Output	18-24
9	Conclusion	25
10	References	25

Abstract

Nowadays we people are so addicted to photos and social media. We are striving to click a photo at every moment of our life to make it a memory.

And this fondness to social media and self-promotion made us to create templates on our photos and give them a good background frames etc. Not just that but also need some filter on that photo. And finally our favorite fancy stickers and emoji's to show our emotions. We have almost conclude that now a days we can talk with people using only emoji's without a single word of any language. At the end want to post them on our social media platforms with some catchy captions and hashtags.

Way2News app is exactly providing that same feature inside it. There we can find the pre made templates, frames for all your occasions and situations. From Good morning messages to Anniversary frames everything. All you need to do is click on create button and proceed. Here you can add photo that fit inside the frame, some extra photos to add color. And you can add as many stickers, emoji's you want. It provides share button through which share to any social media platform.

Introduction

Way2News news app has added a new feature for photo editing in it. There we can find pre made frames for all suitable scenarios and events. We can choose one and edit it according to our case. These frames follow events we regularly has in our life like birthdays, anniversaries, friendship goals, couple goals, wishes etc. Upon choose one we can add the photo that fit inside the frame. After we can add many other photo as well. In addition to photos we can place stickers, emoji's, texts upon the frame photo to make the edit more impactful and attractive. Because these add life to it. Finally when we are done with editing, we can save to our phone storage or even share to any major social platform through internet. This works in this simple way to give user a good edited photo to wish someone.

User : -

User is the one who can choose the frame and edits it. That is very according to his interest with the options available over there.

Add Photo: User can choose photos from his phone storage and place inside the frame and can adjust the size. Multiple photos can be added inside the frame.

Add Texts: In this section, he can add any text that give sense to the edit. The text that is added can change its font style, size, orientation, alignment etc.

Add Emoji: The feature has option which gives some most used pre added emoji's from which he can choose and position it where ever he wants.

Add Sticker: Sticker is the one more option that is available which is also predefined most used one. He can select one or more and position them.

Download: After editing the photo, when he feels like perfect he can download it to his phone's local storage.

Share: User can share the edited one to his all social media platforms including whatsapp over internet. Share to close ones and share the joy

Remove: In the process of editing if feels something is unwanted is added or something has gone wrong he can always undo the things by deleting them by long pressing on the item.

It gives all the flexibility to make the prefect blending edited photo that could be used to surprise someone.

Purpose

Photo editing feature is added in the way2news app to give its users one more reason to fall in love with the app. But mainly to give its users a chance to wish someone special to them and add some happiness to them on their special days. As now a days sharing and caring over internet is largely evolved and we are habituated to convey our greeting over internet than to personally. A single created edit can be posted anywhere and that adds more value to this feature.

Scope

Way2News Photo Editing feature has much impact in it's users usage because people are intended to share news from the app. So sharing is happening here. As we are posting good morning messages and quote of prebuilt design, users sharing that as well. So we thought, what if we give a chance to user himself to create how wants that message or quote with easy options, then why don't they share the same with their community. It seems fair enough so we developed and launched this feature and it's running successfully. People are very interested in using this feature.

So in near future we are planning to introduce a video editing option as well inside the app which would be loved the same.

Advantages:

- Easy, user friendly GUI.
- Options are of more symbols that are very familiar.
- Sharing can be through online to platforms.
- Very customized and most used widgets.

Disadvantages:

- It needs lot of storage and internet to process.

Requirement Specification

Hardware Configuration:

Client Side:

Ram	16 GB
Hard disk	10 GB
Processor	1.0 GHz

Server side:

Ram	10 GB
Hard disk	50 GB
Processor	2.0 GHZ

Software Requirement:

Front end	iOS, UIKit
Server side Language	Nodejs
Database Server	Mongodb (NoSql)
Web Browser	Firefox , Google Chrome
Operating System	MacOS, iOS

Cocoa Touch - iOS

Cocoa Touch is the application development environment for building software programs to run on iPhones, iPads, Apple Watch, TV, mac from Apple Inc.

Cocoa Touch provides an abstraction layer of iOS, the operating system for the iPhone, iPod Touch, and iPad. Cocoa Touch is based on the [macOS Cocoa API](#) toolset and, like it, is primarily written in the [Objective-C](#) language. Cocoa Touch allows the use of hardware and features that are not found in macOS computers and are thus unique to the iOS range of devices. Just like Cocoa, Cocoa Touch follows a [Model–View–Controller](#) (MVC) software architecture.

Swift

Swift is a powerful and intuitive programming language for iOS, iPadOS, macOS. Writing Swift code is interactive and fun the syntax is concise yet expressive and Swift includes modern day features. Developers love. Swift code is safe by design and produces software that run lightning-fast.

Objective-C

Objective-C is a high-level general purpose object-oriented programming language that adds Smalltalk-style messaging to the C programming language. Originally developed by Brad Cox and Tom Love in the early 1980s, it was selected by NeXT for its NeXTSTEP operating system.

Analysis and Design

Analysis:

We can choose one and edit it according to our case. These frames follow events we regularly has in our life like birthdays, anniversaries, friendship goals, couple goals, wishes etc. Upon choose one we can add the photo that fit inside the frame. After we can add many other photo as well. In addition to photos we can place stickers, emoji's, texts upon the frame photo to make the edit more impactful and attractive. Because these add life to it. Finally when we are done with editing, we can save to our phone storage or even share to any major social platform through internet. This works in this simple way to give user a good edited photo to wish someone.

Disadvantage of present system:

Not user friendly: Now a days, most of the photo editing platforms not cover every option and smooth transition.

Limited areas: It's predefined background frames will be of limited range and not very suitable to present day situations.

Time consuming: Editing time and sharing options are not very smooth and they take lot of time to build it.

Design Introduction:

Design is the first step in the development phase for any techniques and principles for the purpose of defining a device, a process or system in sufficient detail to permit its physical realization. Once the software requirements have been analyzed and specified the software design involves three technical activities - design, coding, implementation and testing that are required to build and verify the software.

The design activities are of main importance in this phase, because in this activity, decisions ultimately affecting the success of the software implementation and its ease of maintenance are made. These decisions have the final bearing upon reliability and maintainability of the system. Design is the only way to accurately translate the customer's requirements into finished software or a system.

Design is the place where quality is fostered in development. Software design is a process through which requirements are translated into a representation of software. Software design is conducted in two steps. Preliminary design is concerned with the transformation of requirements into data

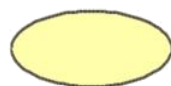
UML Diagrams:

Actor:

A coherent set of roles that users of use cases play when interacting with the usecases.an observable result of value of an actor.



Use case: A description of sequence of actions, including variants, that a system performs yields an observable result of value of an actor. Actor diagram is drawn in an eclipse shape



UML stands for Unified Modeling Language. UML is a language for specifying, visualizing and documenting the system. This is the step while developing any product after analysis. The goal from this is to produce a model of the entities involved in the project which later need to be built. The representation of the entities that are to be used in the product being developed need to be designed.

USECASE DIAGRAMS:

Use case diagrams model behavior within a system and helps the developers understand of what the user require. The stick man represents what's called an actor.

Use case diagram can be useful for getting an overall view of the system and clarifying that can do and more importantly what they can't do.

Use case diagram consists of use cases and actors and shows the interaction between the use case and actors.

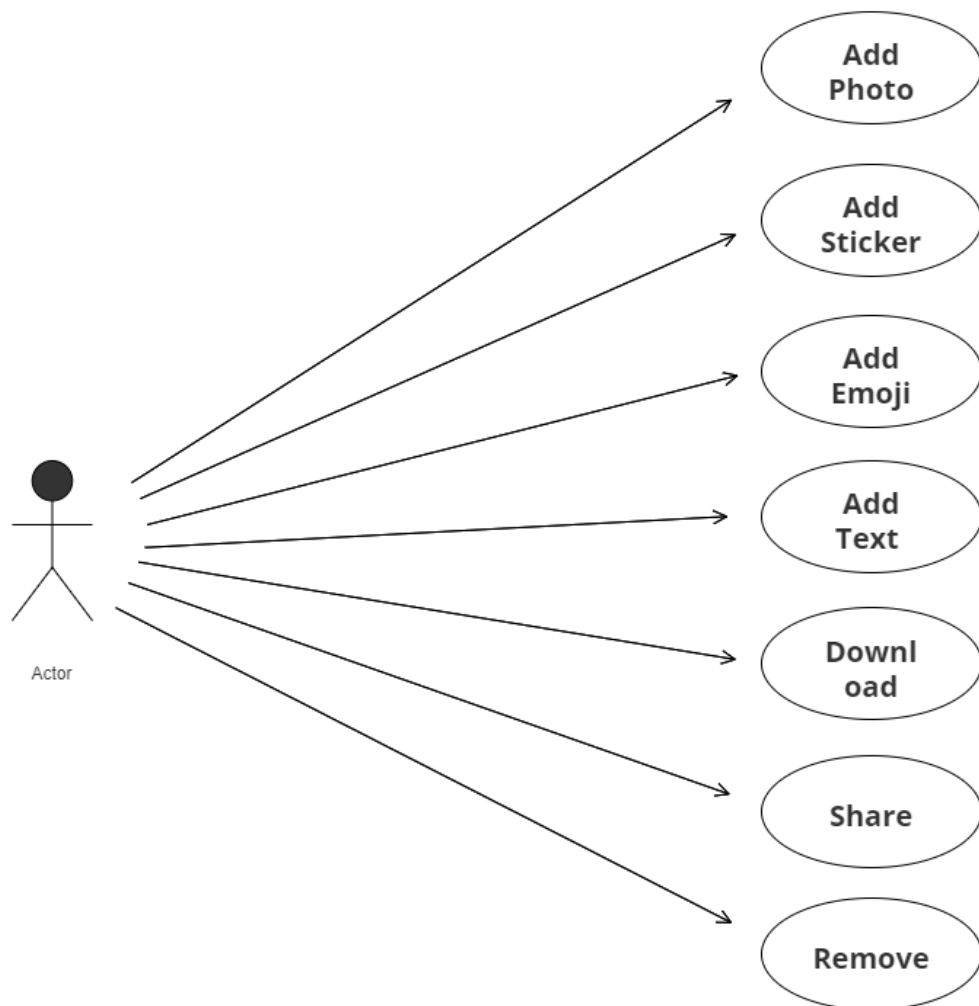
The purpose is to show the interactions between the use case and actor. To represent the system requirements from user's perspective.

An actor could be the end-user of the system or an external system.

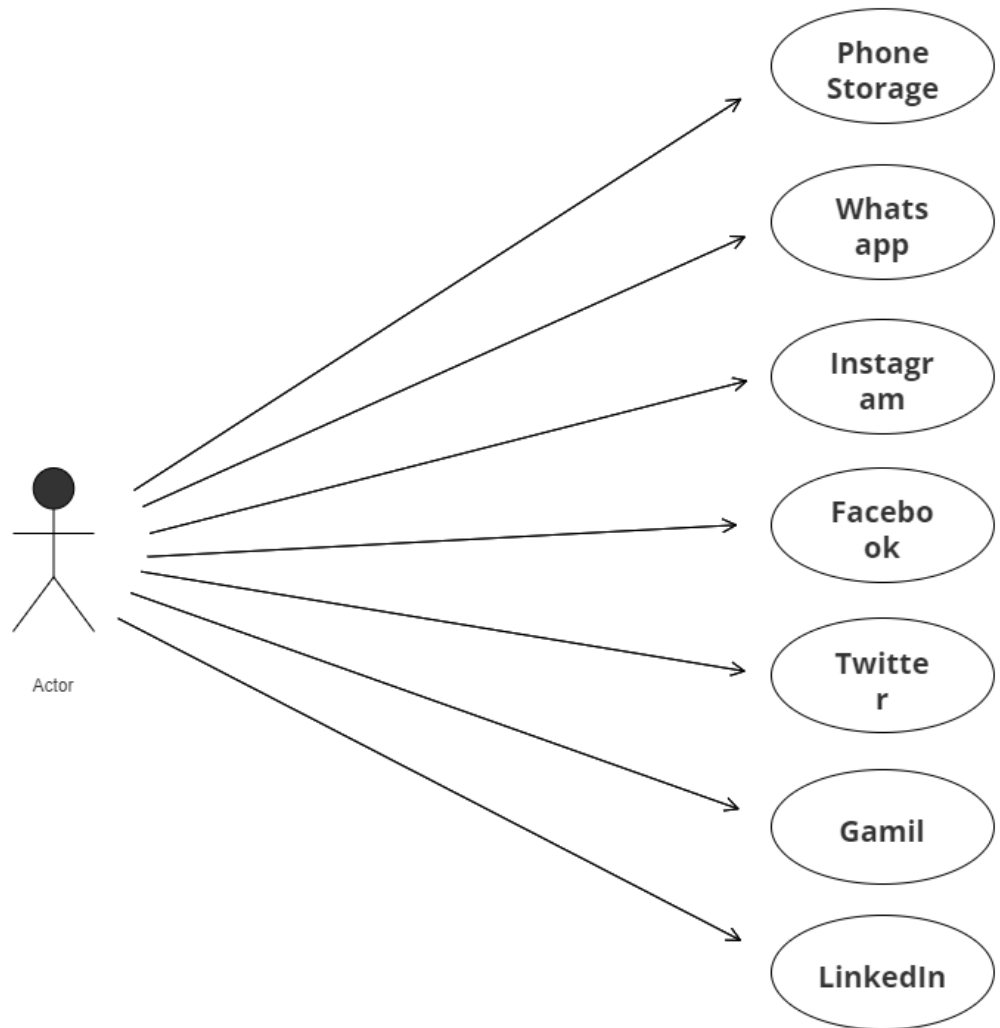
USECASE DIAGRAM: A Use case is a description of set of sequence of actions. Graphically it is rendered as an ellipse with solid line including only its name. Use case diagram is a behavioral diagram that shows a set of use cases and actors and their relationship. It is an association between the use cases and actors. An actor represents a real-world object. Primary Actor – Sender, Secondary Actor Receiver.

Use Case Diagrams:

User



User



ER Diagram:

The Entity-Relationship (ER) model was originally proposed by Peter in 1976 [Chen76] as a way to unify the network and relational database views. Simply stated the ER model is a conceptual data model that views the real world as entities and relationships. A basic component of the model is the Entity-Relationship diagram which is used to visually represent data objects. Since Chen wrote his paper the model has been extended and today it is commonly used for database design for the database designer, the utility of the ER model is:

It maps well to the relational model. The constructs used in the ER model can easily be transformed into relational tables.

It is simple and easy to understand with a minimum of training. Therefore, the model can be used by the database designer to communicate the design to the end user.

In addition, the model can be used as a design plan by the database developer to implement a data model in specific database management software.

ER Notation

There is no standard for representing data objects in ER diagrams. Each modeling methodology uses its own notation. The original notation used by Chen is widely used in academic texts and journals but rarely seen in either CASE tools or publications by non-academics. Today, there are a number of notations used; among the more common are Bachman, crow's foot, and IDEFIX.

All notational styles represent entities as rectangular boxes and relationships as lines connecting boxes. Each style uses a special set of symbols to represent the cardinality of a connection. The notation used in this document is from Martin. The symbols used for the basic ER constructs are:

Entities are represented by labeled rectangles. The label is the name of the entity. Entity names should be singular nouns.

Relationships are represented by a solid line connecting two entities. The name of the relationship is written above the line. Relationship names should be verbs

Attributes, when included, are listed inside the entity rectangle. Attributes

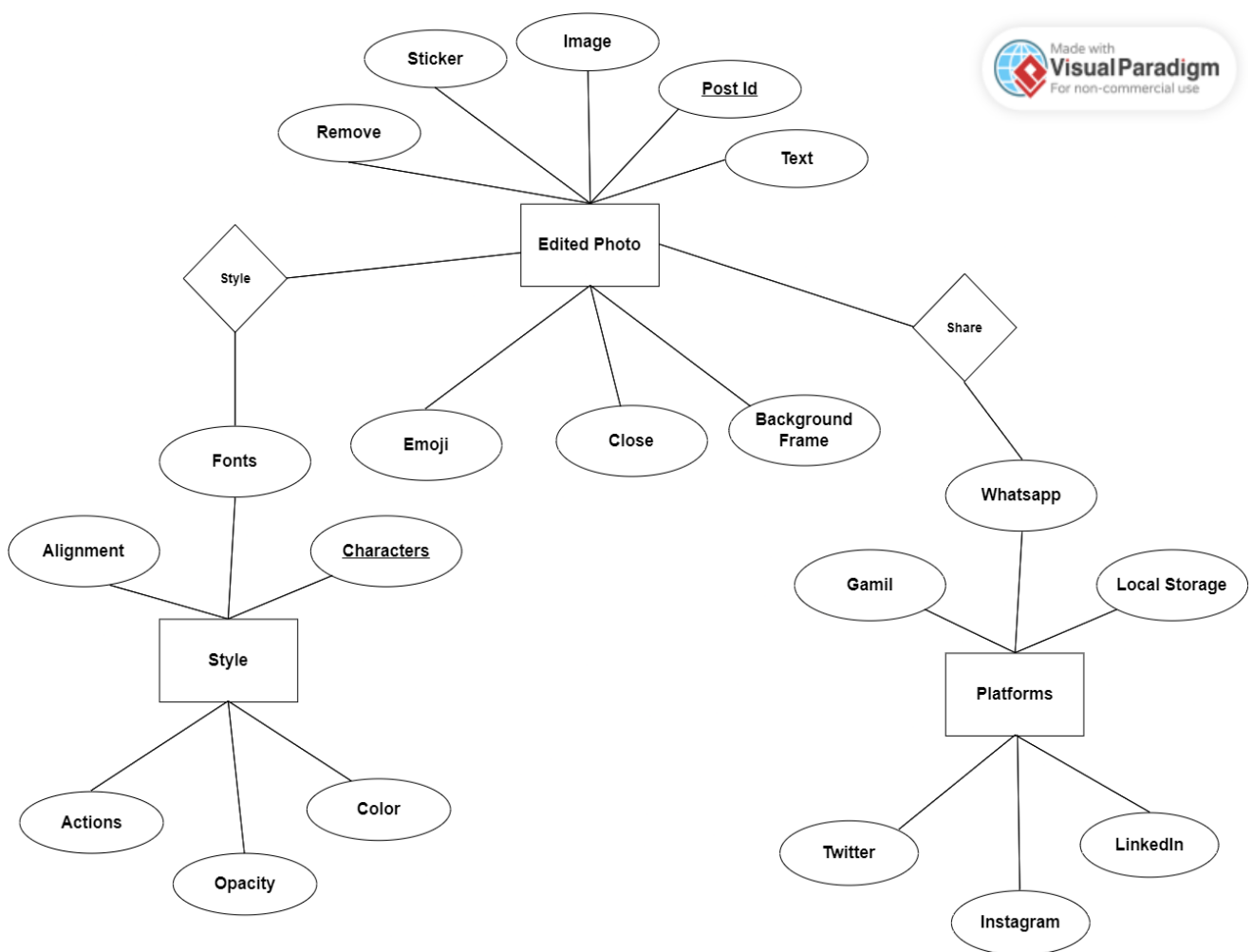
which are identifiers are underlined. Attribute names should be singular nouns.

Cardinality of many is represented by a line ending in a crow's foot. If

the crow's foot is omitted, the cardinality is one.

Existence is represented by placing a circle or a perpendicular bar on the line. Mandatory existence is shown by the bar (looks like a 1) next to the entity for an instance is required. Optional existence is shown by placing a circle next to the entity that is optional.

ER Diagram



Implementation and System Testing

After all phase have been perfectly done, the system will be implemented to the server and the system can be used.

System Testing

The goal of the system testing process was to determine all faults in our project .The program was subjected to a set of test inputs and many explanations were made and based on these explanations it will be decided whether the program behaves as expected or not. Our Project went through two levels of testing

1. Unit testing
- 2 .Integration testing

Unit Testing

Unit testing is commenced when a unit has been created and effectively reviewed .In order to test a single module we need to provide a complete environment i.e. besides the section we would require The procedures belonging to other units that the unit under test calls Non local data structures that module accesses .A procedure to call thefunctions of the unit under test with appropriate parameters

1. Test for the admin module

Testing admin login form-This form is used for log in of administrator of the system. In this form we enter the username and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask the details.

Report Generation: admin can generate report from the main database.

Integration Testing

In the Integration testing we test various combination of the project module by providingthe input.

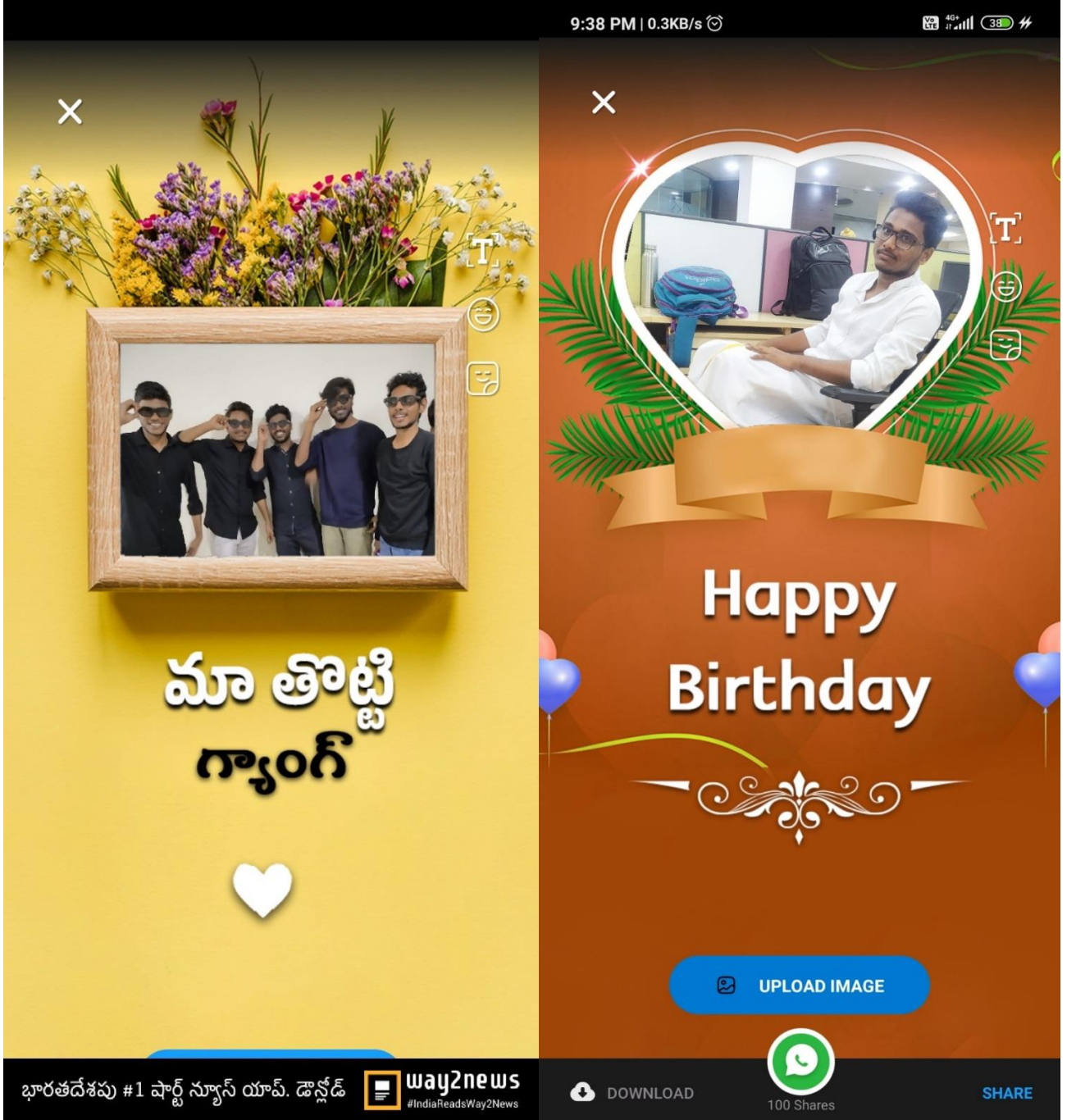
The primary objective is to test the module interfaces in order to confirm that no errorsare occurring when one module invokes the other module.

Evaluation

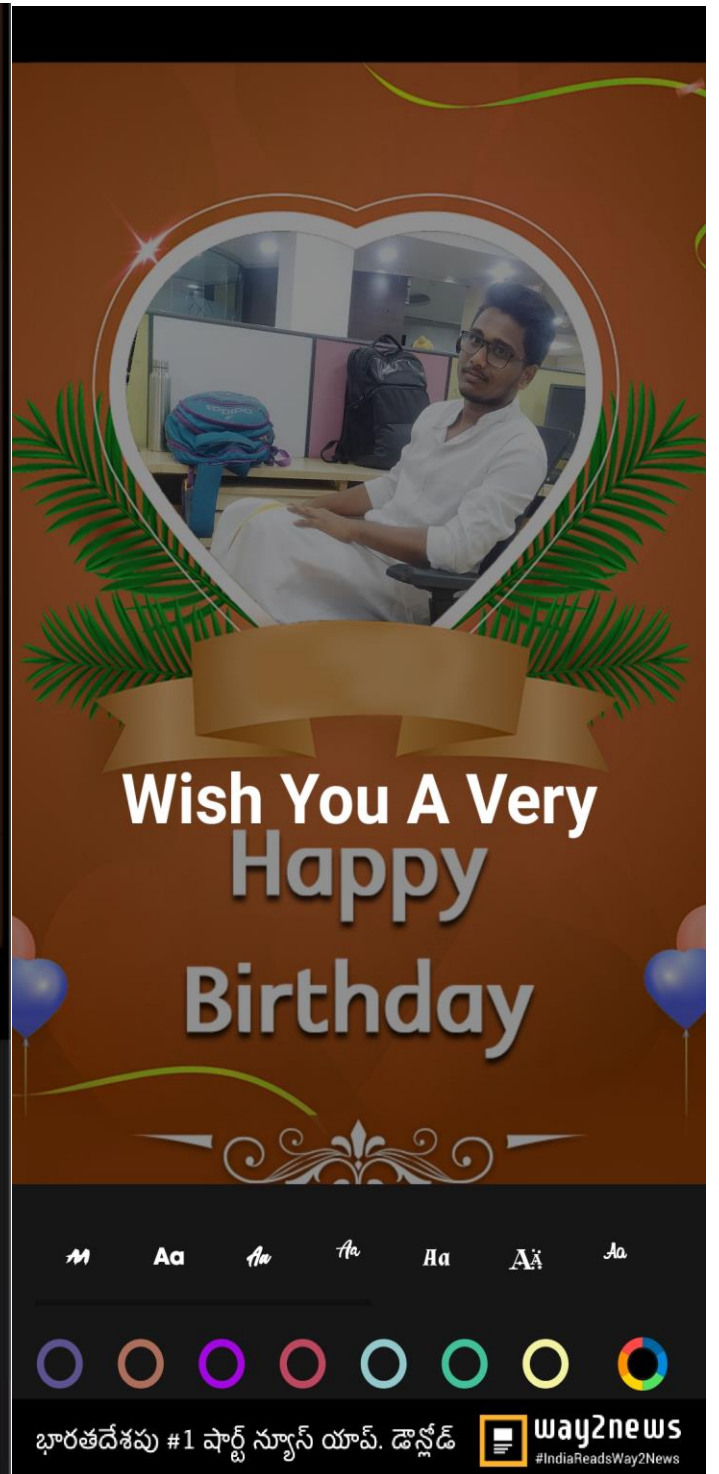
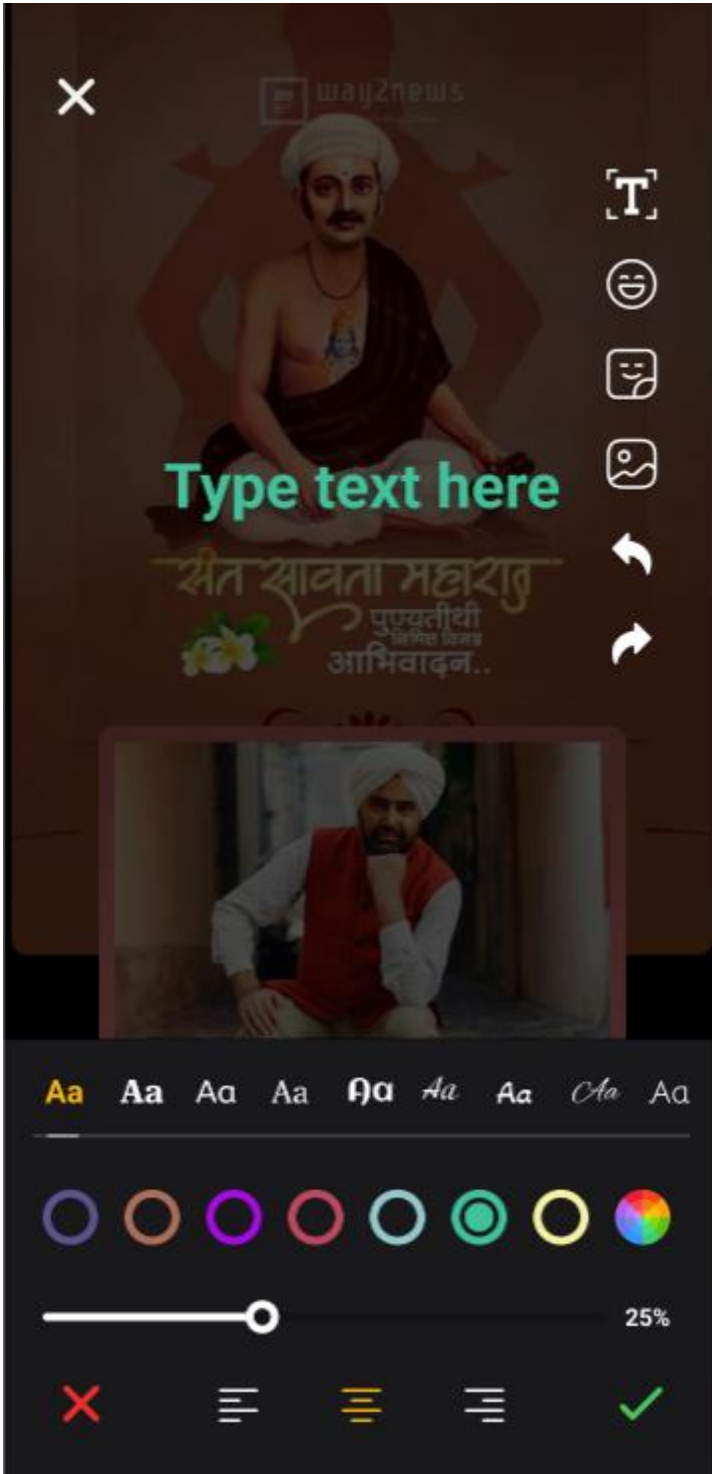
Introduction Screen:



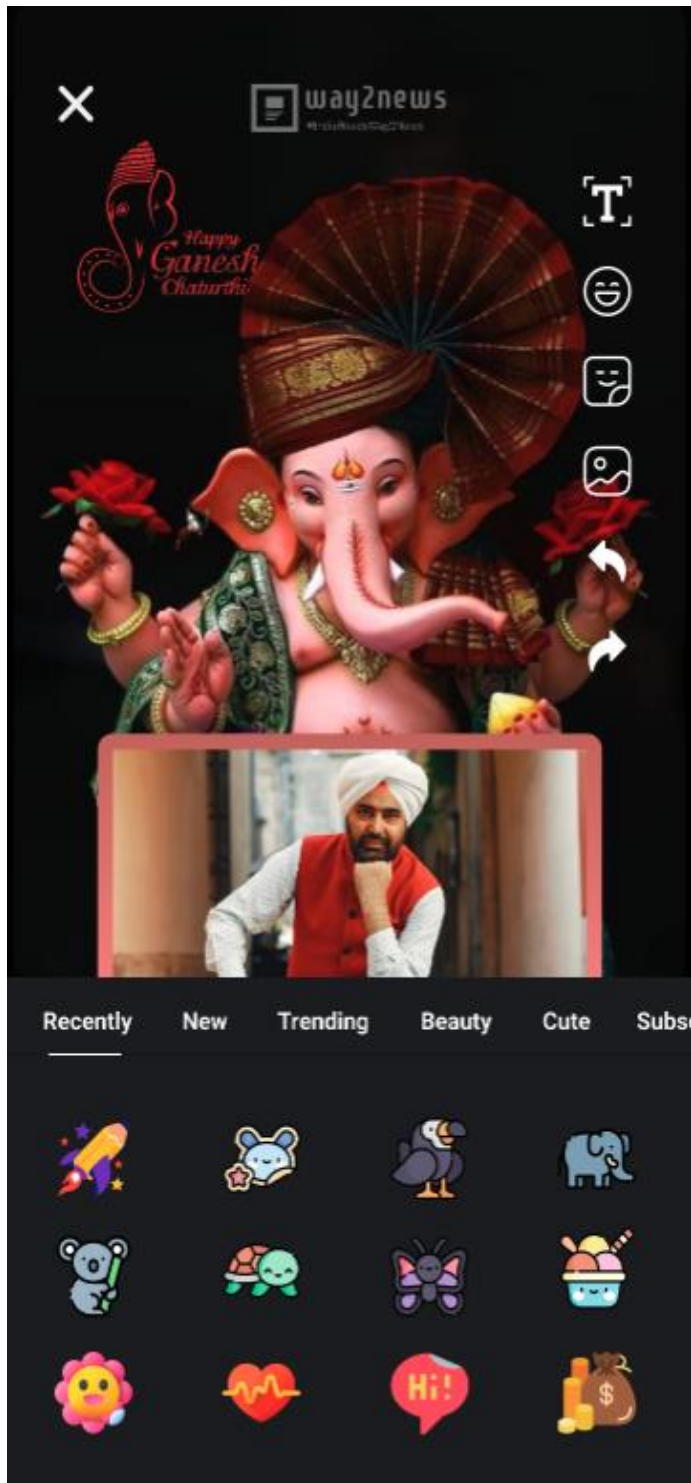
Add Photos in Frame:



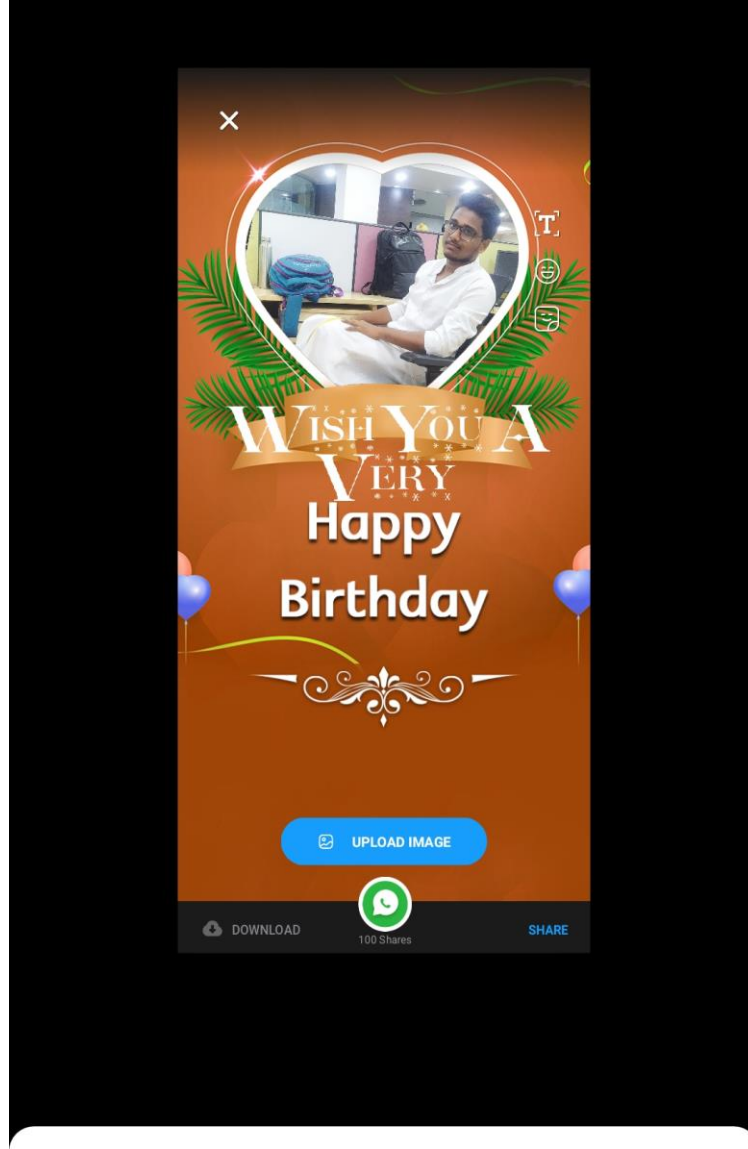
Add Text:



Add Stickers:



Share to Platforms:



WhatsApp



Facebook



Twitter



Messenger

భారతదేశపు #1 పార్ట్ న్యూస్ యాప్. డౌన్లోడ్



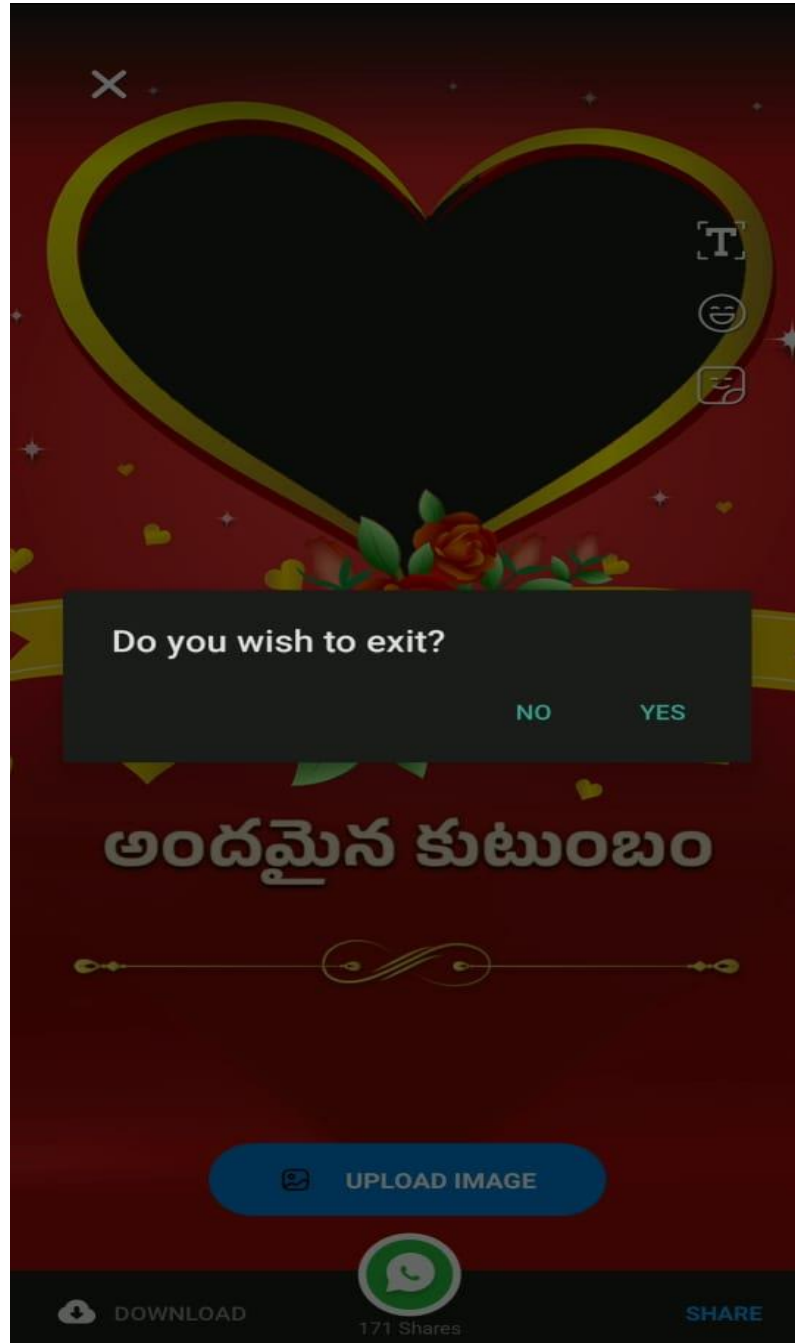
way2news

#IndiaReadsWay2News

Download to Phone Storage:



Close or Discard Edit:



Conclusion

Our Way2News will be able to decrease the gap between user need and modern day life over internet and celebration on online. As evolved like its good to make a birthday photo edit or video rather than meeting the person directly and wishing them. So be it, such is life has become.

The users can be able to able to edit what they want and how they want so we just give them a good starting point and some tools with which they go on to rock it.

With all that user centric design and implementation here we present in front of you, The Way2News.

Thank you all for the guidance and support.

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*******THANKYOU*******