



**Proposal
For
Second Year Project
Bachelor of Science in Information Technology**

**Age Calculator App
Submitted by
Ngawang Choden (12190066)**

Gyalpozhing College of Information Technology

Read carefully before filling the form.

1. Please do not alter the layout of the application form. Information must be filled in the spaces provided, under set format.
2. Guidance notes in various fields should not be deleted.
3. Required information should be duly filled in the specified fields.
4. Required heads/fields which are not relevant to the project should be marked **N/A** (Not Applicable) or left blank and should not be deleted.

Guidelines and Forms

Submission Procedure

Duly filled proposal forms completed in all respects should be submitted in form of soft copy and a hard copy to project guide and project coordinator. On receipt of the applications the proposals will be evaluated by reviewer panel and proposal would then be defended by student groups. The project group may need to revise the proposal in light of the evaluator's recommendations.

For further information, please contact:

Project Coordinator

Sonam Wangmo

sonamwangmo.gcit@rub.edu.bt

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Application for Second Year Project**1. Project Identification**

A. Reference Number:		
(for office use only)		
B. Project Title: Age Calculator App		
C. Project Internal Guide:		
Name:	Sonam Wangmo	
Designation:	Associate Lecturer	
Organization:	Gyalpozhing College of Information Technology	
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Email:	Sonamwangmo.gcit@rub.edu.bt	
C1. Project External Guide:		
Name:	NA	
Designation:		
Organization:		
Mobile # :		Tel. # :
Email:		
C2. Student Group Lead:		
Name:		
Roll No:		
Department:		
Mobile # :		Tel. # :
Email:		

D. Organizations Involved in the Project:

(Please identify all affiliated organizations collaborating in the project, and describe their role/contribution to the project.)

D1. Industrial Organizations:

#	Organization Name	Role / Contribution
	NA	

D2. Academic Organizations:

#	Organization Name	Role / Contribution

D3. Funding Organizations:

#	Organization Name	Role / Contribution
	NA	

E. Key Words:

(Please provide a maximum of 5 key words that describe the project. The key words will be incorporated in our database.)

Application

Easy and efficient age calculation

Time saving

A. Research and Development Theme:

The main theme of my project would be developing an android based application that will allow the users to calculate their age quickly and accurately.

G. Project Status:(Please mark ☒)☒ New

Modification to previous Project

Extension of existing project

H. Project Duration:Expected Starting Date: 9th February 2021Planned Duration in
months: Four months**2. Scope, Introduction and Background of the Project****A. Scope of the Project:****System Scope**

The proposed system will provide the users with the following features:

1. Birth Date: Allow user to select the date of birth in date, month and year format.
2. Current Date: Allow users to enter the current date.
3. Calculate Age: Will generate the age based on year, month and date.
4. Share: Allow users to share their age details with others.
5. More App – The users will be able to see other random applications.

User Scope

The target of my project is for those people who want to calculate their exact age.

B. Introduction (Project Background and Literature Review, Current State of the Art):

(Detailed summary of what all has been done internationally in the proposed area quoting references and bibliography. Please note that this section demonstrates the depth of knowledge of the project team and builds the confidence of the evaluators about capability of the team in achieving the stated objectives.)

(Please describe the current state of the art specific to this research topic.)

Background

With the advancement of mobile technology there are new ideas involved in to it mainly app development is the fast growing features for different types of mobile operating systems. We can find many useful apps the app store which covers medical, health care, gaming, etc...At present android mobile operating system is the mostly used all over the world.

Age calculator is an android app developed for the function of determining specific age of user. It mainly focuses to calculate exact age of user depending upon the input date of birth. With these application it can reduces the manual age computation treatment and roots out the mistaken in age calculation in android phones. Age calculator apps are being downloading by a many user as it gives you very satisfactory results within seconds. If you do it manually it takes a lot of time and also one cannot say that the answer will be 100% correct. So after using this app, you get what exactly you want. One of the biggest advantages is that it will tell you all date, time, hour and even seconds.

The proposed application is android based applications which will be ease the work of the users. It will provide the user with many features that will reduce the workload of the user. This application is especially for the users to calculate their age quickly and easily. It will provide the user with great UI (User Interface) and user friendly features. The proposed application will be a digitalized platform for many users to calculate their age using their mobile.

Literature Review

As per the literature review, Age calculator by Android Code Play (2020), their application provides a very simple and user friendly that one can easily calculate age. In their app the user can add as many family and friends birthdays and important days as you needed.

The features of their app includes:

- i. It let you discover ages in hours, minutes and seconds. And it also provides an option to calculate date earlier than 1900s.
- ii. It support multiple date formats and also supports 24 hours and 12 hours time formats.
- iii. It supports multi languages and multi color theme.
- iv. You can share your calculation results as a screenshot with different kind of share options.
- v. Add family and friends birth days and anniversaries on the go and get notifications.

- vi. Sort family and friends date by age, name, and event name, date of birth, week day, month and upcoming birthdays.
- vii. Find upcoming 10 weekdays of your birthday and can also find how many months and days to go for your next birthday.

The only difference between the literature review and this app is that in their app they have feature to check whether the given year is a leap year or not. And they have also features to add member where we can add important events date for your particular friends. In order to make your friends recognizable, you can add their profile pictures and other contact information where as in my project I have feature like birth date where it allow user to select the date of birth in date, month and year format, current date where it allow user to enter current date.

Current State of Art

In this era of 21st century every people prefer to work and like to get things done quickly. Therefore the proposed system which is Age Calculator will provide easy and efficient means of calculating the exact age through android phones.

D. Motivation and Need:

(Please describe the motivation and need for this work.)

Since we the human beings are not capable of calculating the exact age manually it is difficult for us to find out exactly how old are we. It is important to know our age to make us aware of the changing world as we know that every second count. We often encounter people knowing only their age by year and not exactly by month and days so in order to know it or respond to someone regarding our age, it takes some time to think for a minute to calculate our exact age. Therefore to overcome the above mentioned problems, it motivated me to develop this platform from where the exact age of not only human beings but also of any matters can be calculated to find out the exact age through this application.

3. Aim and Objectives of the Project

(Please write the actual aim of your project. Also, describe the measurable objectives of the project and define the expected results. Use results-oriented wording with verbs such as 'to develop.', 'to implement.', 'to research.', 'to determine.', 'to identify.' The objectives should not be statements and should not include explanations and benefits. The objective should actually specify in simple words what the project team intends to achieve (something concrete and measurable/ deliverable). Fill only those objectives that are applicable to the proposed project.)

AIM: The aim of my project is to develop an application where the user can calculate their age correctly.

OBJECTIVES:

1. To provide the users with an efficient platform to calculate their exact age.
2. To eradicate the manual way of calculating the age of the user.
3. To reduce the time of the people in calculating their age and provide them with computerized system.
4. To allow the users to turn their mobile phones into an effective tool where they can calculate their age.

4. Methodology

A. Development / Research / Test Methodology:

(Please describe the technical details and justification of your development and research plan and test plan and testing strategies. Identify specialized equipment, facilities and infrastructure which are required for the project and their utilization plan. The block diagrams, system flow charts, high level algorithm details etc. have to be provided in this section. Also, describe the overall methodology to be used for the particular research topic)

Problem Statement

Exact human age is required to be calculated in many sectors for various purposes. With the development of technology, use of software is preferred to manual hand calculation of age. Although this app is developed as a semester Android app development project, it seems to have bright future and scope in all Android devices.

Planning

In this phase, the general information of the project would be studied and I will prepare an overview of the project.

Requirement gathering and Analysis

I will collect relevant information from the research papers and existing system. After collecting the relevant ideas, I will work on understanding the problems in detail.

Design

In this phase, a design will be prepared from the requirements that were collected in the previous phase. Accordingly, the required UML diagrams will be prepared.

Coding/Implementation

The actual development of the project will start after the design phase.

Testing

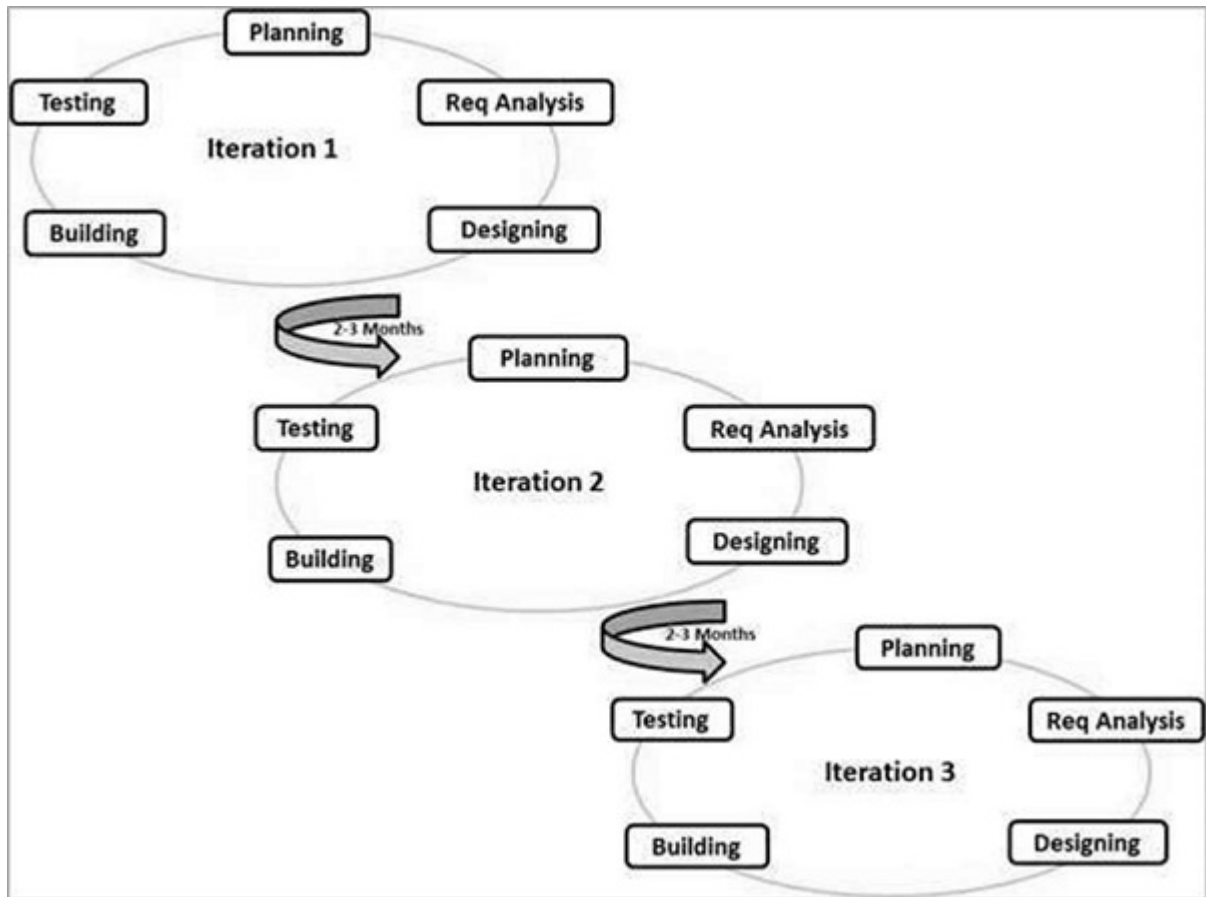
After the product development, the system will undergo several testing strategies to test the functionalities and workings of the system.

Documentation

A well written project report will be documented at the end of the project development.

Methodology

I decided on the using Agile model as it is used for developing small projects. It helps in detecting errors easily and furthermore, it reduces risk.



Agile Model

An agile model is a combination of iterative and incremental process model. It breaks the product into small incremental builds. These builds are provided in iterations. Agile methods break tasks into smaller iterations. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration and the scope of every iteration have been defined clearly in advance. The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements.

C. Project Activities:

(Please list and describe the main project activities, including those associated with the transfer of the research results to customers/beneficiaries. The timing and duration of research activities are to be shown in the Gantt chart in Section 8.)

1. Installation of software and tools: Installation of android studio, Java Development Kit, and database server.
2. Resource Gathering: Video tutorials, online references and books related to android app development and XML.
3. Design Phase: It includes designing user interface, database design and understanding the functionalities of the features.
4. Development Phase: In this phase, development of features in the app starts.
5. Testing: The product will be tested for its functionalities and will also be carried out for integration testing to ensure that it produces a desired function.
6. Final Documentation: After all the phases are done we will document about the project and will prepare a final report for our project.

D. Key Milestones and Deliverables:

(Please list and describe the principal milestones and associated deliverables of the project. A key milestone is reached when a significant phase in the project is concluded, e.g. selection and simulation of algorithms, completion of architectural design and design documents, commissioning of equipment, completion of test, etc.) The timing of milestones is also to be shown in the Gantt chart in Section 8.

No.	Elapsed time from start (in months) of the project	Milestone	Deliverables
1	09/02/2021 – 23/02/2021	Topic Selection	Accepting project proposal by module tutor.
2	25/02/2021 – 14/03/2021	Brainstorming, Feasibility and Survey	Project Proposal.
3	15/03/2021 – 25/03/2021	Requirement gathering and Analysis.	Software requirement gathering and documentation and prototype development.
4	26/03/2021 – 30/03/2021	Software Installation	Setting environment for the development.
5	31/03/2021 – 12/04/2021	System Design	ER diagram, Usecase and data flow diagram.
6	13/04/2021 – 01/05/2021	Development/Coding	Source code and functional features implementation.
7	02/05/2021 – 15/05/2021	Testing Implementation	Test case
8	16/05/2021- 22/05/2021	Final Documentation	Documentation ready/presentation

5. Benefits of the Project (Expected output/outcomes):

1. Easy to access and user-friendly.
2. More convenient.
3. Error-free

6. Risk Analysis/Feasibility**A. Risks of the Project:**

(Please describe the factors that may cause delays in, or prevent implementation of, the project as proposed above; estimate the degree of risk.)

(Please mark ☒ where applicable)

	Low	Medium	High
Technical risk	<input checked="" type="checkbox"/>		
Timing risk	<input checked="" type="checkbox"/>		
Budget risk		-	

A1. Comments (Describe the risk):**1. Technical Risk:**

As an amateur developer, I might face some technical risk such as

- Handling sophisticated software.
- I might not get all the resources that are required to develop an application.
- I might face some hardware problems (4GB RAM).

2. Timing Risk:

I might face some risk regarding time such as

- I might not be able to complete project within the given time period.
- Pre-planned schedule may get delayed.

(Approval of Project Proposal by the Competent Authority (Department Chairman) and Project Review Team is mandatory before the start of project execution.)

SI #	Name	Signature
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Project Coordinator

Date: _____ Signature: _____

Date: _____ Signature _____

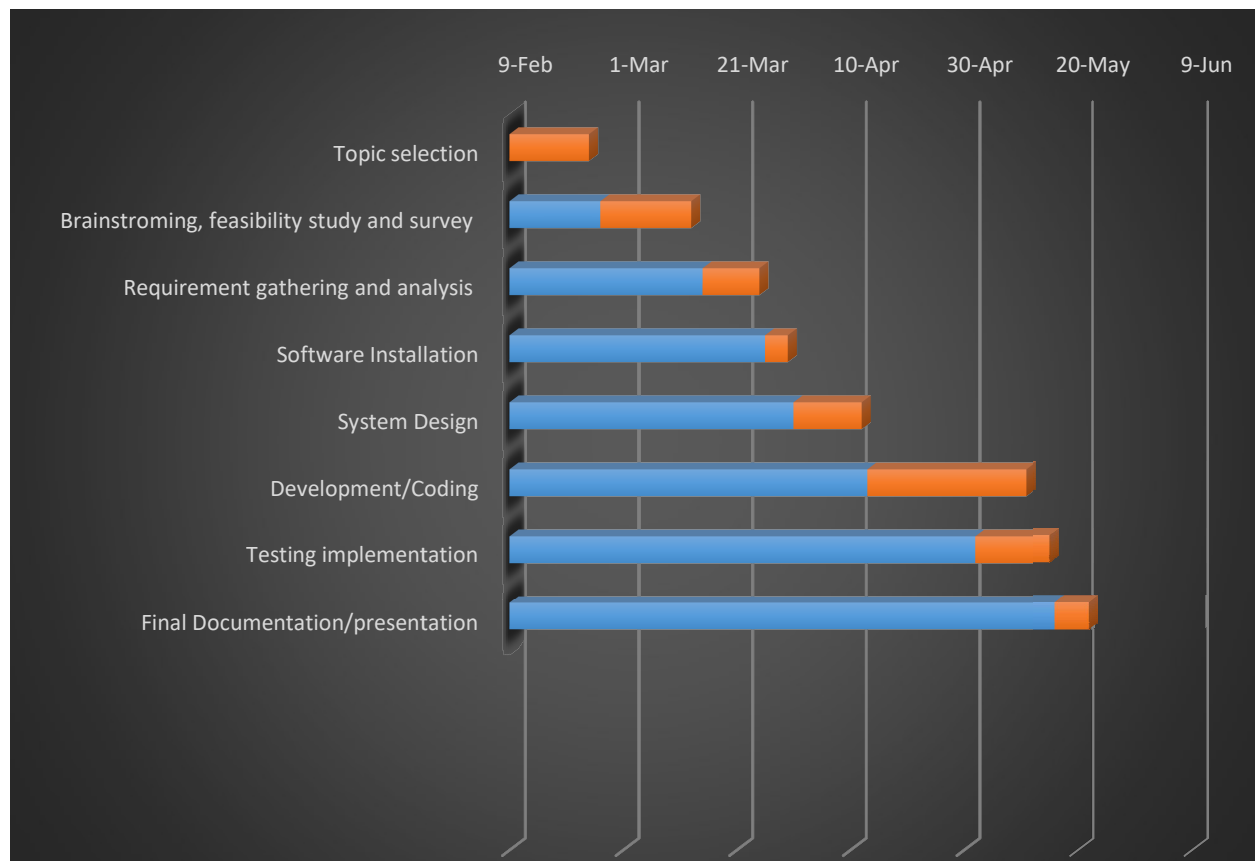
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8. Reviewers Panel Comments

10. Project Schedule / Milestone Chart /Work plan

(Project schedule using MS-Project (or similar tools) with all tasks, deliverables, milestones, clearly indicated are preferred. Task should be measured in terms of hours)

Task Name	Start	Finish	Days
Topic selection	9-Feb	23-Feb	14
Brainstorming, feasibility study and survey	25-Feb	14-Mar	16
Requirement gathering and analysis	15-Mar	25-Mar	10
Software Installation	26-Mar	30-Mar	4
System Design	31-Mar	12-Apr	12
Development/Coding	13-Apr	1-May	28
Testing implementation	2-May	15-May	13
Final Documentation/presentation	16-May	22-May	6



13. Report Writing Guidelines

(Project report will be written under the specified guidelines.)

Bibliography

Age calculator - apps on google play. (n.d.). Retrieved March 14, 2021, from <https://play.google.com/store/apps/details?id=com.code1.agecalculator&hl=en>

Age calculator android code application development service - mobile application development service. (2016, November 15). Retrieved March 14, 2021, from <https://www.theappgods.com/age-calculator-android-code-app-development-16690>

TestAccount. (2019, July 21). Age calculator android project with source. Retrieved March 14, 2021, from <https://projectsgeek.com/2015/01/age-calculator-android-project-with-source.html>