

Vision Partner

* Doaa Ahmed Gharib.
* Doaa Atef Muhammed.
* Doaa Othman Muhammed.

Group 1

General

Section 5

Project 10



* Project Name: Vision Partner.
* Project Sponsor: Ministry of health.

(Ministry of Health. [Egypt@gmail.com](mailto:Egypt@gmail.com)).

(01020304050)

* Project Manager: Eng. Muhammed Salah.

(01000203040)

* Project Team:

- Doaa Ahmed Gharib.

- Doaa Atef Muhammed.

- Doaa Othman Muhammed.

* Project Purpose:

Helping blind people to live their lives as normal.

* Business Case:

This application was created to help the blind or visually impaired. It is an application that includes a global community of blind, visually impaired and sighted volunteers. It combines the power of technology and human communication to deliver assistance to the blind through live video calls, where volunteers provide blind and visually impaired users with visual assistance in various tasks.

When the blind and visually impaired ask for help, some volunteers can help them. The application works by pairing blind or visually impaired users with sighted volunteers according to language. The first volunteer to respond to the request calls the specified user and receives a live video call through the back camera of that user's smartphone which opens automatically when the call is answered. Voice communication allows the user and volunteers to solve the task together.

The application services are available for free, and only require an internet connection. You can call at any time of the day whenever you need; there is no limit to the duration or number of calls. The sheer size of the volunteer community means that most calls are answered within 30 seconds. The blind can use it through sound by using smart phone.

The blind and visually impaired can use this application to find the lost things, describe photos and paintings, watching or describing colors, read labels, and Find out the expiration date.

* Basic Milestone Timeline:

- 2 weeks to determine the project goals, and budget.

- 3 weeks to study the project and determine project requirements.

- 3 weeks to assign the team and make project implementation plan.

- 3 weeks to build the application code.

- 2 weeks to test the project.

- 1 week to announce the project.

* Project Budget, Assumptions, and constraints:

**-** The project does not take more than 4 months.

- The cost no more **150,000$.**

- Using the modern technology in the application.

* Project Resources:

- Engineers, lab, devices, programmers, database administrators, testers, and digital marketer.

* High-level risks:

**-** The application is not compatible with the old type of mobile phone.

- None of the volunteers responded to the blind person's request.

- Inappropriateness of the volunteer to the requester for assistance.

* Scope:

- Scope description:

* A non-profit charitable application.
* Suitable for all blind people's ages.
* Available in more than 80 languages.
* More than one million volunteers.

- Acceptance Criteria:

* This application requires a smart phone that supports voice and video calls.
* The app is available via IOS and Android devices.
* If a volunteer does not respond, the application can respond in some cases.
* If the call is delayed for more than 1 minute; a voice message will be sent to the user.

- Deliverables:

* Mobile application.

- Exclusions:

* Some older devices do not support this app.

- Assumptions and Constraints:

* The project does not take more than 4 months.
* The cost no more 150,000$.
* WBS:

1. Planning:
   1. Specify our project goals and its budget.
   2. Study the entire project
   3. Specify project requirements.

2. Execution:

* 1. Split the application code to inputs, outputs, information Processing and distribute them to each person in the team.
  2. Make a project implementation plan.
  3. Built the application software code, and the project design.

3. Project launch:

* 1. Test the project.
  2. Project announcement and its feedback.
* WBS Dictionary:

1. Planning:
   1. Specify the project goals and its budget:

1.1.1. Description: determine the project goals and the budget available for it.

1.1.2. Person: the project manager.

1.1.3. Resources required: engineers, and sponsor.

1.1.4. Cost: 15.000$.

1.1.5. Milestone schedule: 2 weeks.

* 1. Study the entire project:

1.2.1. Description: make some experiments and exercises to study the project more clearly.

1.2.2. Person: team leaders.

1.2.3. Resources required: lab, devices.

1.2.4. Cost: 20.000$

1.2.5. Milestone schedule: 2 weeks.

* 1. Specify project requirements:

1.3.1. Description: determine and provide requirements that the project need.

1.3.2. Person: team leaders.

1.3.3. Resources required: engineers.

1.3.4. Cost: 20.000$.

1.3.5. Milestone schedule: 3 weeks.

1. Execution:
   1. Assign the team:

2.1.1. Description: Built a team of people who are able to implement this project.

2.1.2. Person: the project manager, and team leaders.

2.1.3. Resources required: engineers, programmers.

2.1.4. Cost: 10.000$.

2.1.5. Milestone schedule: 2 weeks.

* 1. Make a project implementation plan:

2.2.1. Description: implementation the project plan to achieve its goal.

2.2.2. Person: team leaders.

2.2.3. Resources required: programmers, devices.

2.2.4. Cost: 30.000$.

2.2.5. Milestone schedule: 3 weeks.

* 1. Built the application code, and the project design:
     1. Description: built the code and make the design of the application.
     2. Person: project manager.
     3. Resources required: programmers, devices, and Database administrators.
     4. Cost: 30.000$
     5. Milestone schedule: 3 weeks.

3. Project launch:

3.1. Test the project:

3.1.1. Description: testing the project before launching it to make sure everything goes perfectly.

3.1.2. Person: team leaders.

3.1.3. Resources required: testers.

3.1.4. Cost: 10.000$

3.1.5. Milestone schedule: 2 weeks.

3.2. Project announcement and its feedback:

3.2.1. Description: announcing the project, launching it in different locations,

and make its feedback.

3.2.2. Person: project manager, and team leaders.

3.2.3. Resources required: digital marketer.

3.2.4. Cost: 15.000$.

3.2.5. Duration: 1week.

* Responsibility Matrices:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | ***Project manager*** | ***Team Leader*** | ***Sponsor*** | ***programmer*** | ***Database administrator*** | ***Designer*** | ***Tester*** | ***Digital marketer*** |
| ***programming*** |  |  |  | ***C*** |  |  | ***R*** |  |
| ***Database*** |  |  |  |  | ***C*** |  | ***R*** |  |
| ***Design*** | ***R+A*** | ***P*** |  |  |  | ***C*** |  |  |
| ***Test project*** |  | ***P*** |  | ***P*** | ***P*** |  | ***C*** |  |
| ***Announcement*** | ***A*** | ***R*** | ***A*** |  |  | ***P*** |  | ***C*** |
| ***lunch project*** | ***A*** | ***P*** | ***P+A*** |  |  | ***P*** |  | ***P*** |

|  |  |
| --- | --- |
| ***A*** | ***Approve*** |
| ***C*** | ***Create*** |
| ***R*** | ***Revision*** |
| ***P*** | ***Participate*** |

* Network

|  |  |  |  |
| --- | --- | --- | --- |
| AUTOMATED WAREHOUSE  Order Picking System | | | |
| ***Activity*** | ***Description*** | ***Preceding Activity*** | ***Activity Time*** |
| ***A*** | ***Specify goals*** | ***None*** | ***2 Week*** |
| ***B*** | ***Study Project*** | ***A*** | ***2*** |
| ***C*** | ***Specify requirements*** | ***A*** | ***3*** |
| ***D*** | ***Assign***  ***Team*** | ***B*** | ***2*** |
| ***E*** | ***Implementation***  ***plan*** | ***C*** | ***3*** |
| ***F*** | ***Code software*** | ***D, E*** | ***3*** |
| ***G*** | ***Test Project*** | ***F*** | ***2*** |
| ***H*** | ***Project***  ***announcement*** | ***G*** | ***1*** |

|  |  |  |
| --- | --- | --- |
| ***0*** | ***A*** | ***2*** |
| ***0*** | ***Specify goals*** | |
| ***0*** | ***2*** | ***2*** |

|  |  |  |
| --- | --- | --- |
| ***2*** | ***C*** | ***5*** |
| ***0*** | ***Specify requirements*** | |
| ***2*** | ***3*** | ***5*** |

|  |  |  |
| --- | --- | --- |
| ***2*** | ***B*** | ***4*** |
| ***2*** | ***Study Project*** | |
| ***4*** | ***2*** | ***6*** |

|  |  |  |
| --- | --- | --- |
| ***4*** | ***D*** | ***6*** |
| ***2*** | ***Assign***  ***Team*** | |
| ***6*** | ***2*** | ***8*** |

|  |  |  |
| --- | --- | --- |
| ***5*** | ***E*** | ***8*** |
| ***0*** | ***Implementation***  ***plan*** | |
| ***5*** | ***3*** | ***8*** |

|  |  |  |
| --- | --- | --- |
| ***8*** | ***F*** | ***11*** |
| ***0*** | ***Code software*** | |
| ***8*** | ***3*** | ***11*** |

|  |  |  |
| --- | --- | --- |
| ***11*** | ***G*** | ***13*** |
| ***0*** | ***Test Project*** | |
| ***11*** | ***2*** | ***13*** |

|  |  |  |
| --- | --- | --- |
| ***13*** | ***H*** | ***14*** |
| ***0*** | ***Project***  ***announcement*** | |
| ***13*** | ***1*** | ***14*** |

* Resource Constrained

|  |  |  |
| --- | --- | --- |
| ***0*** | ***A*** | ***2*** |
| ***0*** | ***2p*** | ***0*** |
| ***0*** | ***2*** | ***2*** |

|  |  |  |  |
| --- | --- | --- | --- |
| ***2*** | ***C*** | | ***5*** |
| ***0*** | ***2p*** | ***0*** | |
| ***2*** | ***3*** | | ***5*** |

|  |  |  |
| --- | --- | --- |
| ***2*** | ***B*** | ***4*** |
| ***2*** | ***2p*** | ***2*** |
| ***4*** | ***2*** | ***6*** |

|  |  |  |
| --- | --- | --- |
| ***4*** | ***D*** | ***6*** |
| ***2*** | ***1p*** | ***2*** |
| ***6*** | ***2*** | ***8*** |

|  |  |  |
| --- | --- | --- |
| ***5*** | ***E*** | ***8*** |
| ***0*** | ***1p*** | ***0*** |
| ***5*** | ***3*** | ***8*** |

|  |  |  |
| --- | --- | --- |
| ***8*** | ***F*** | ***11*** |
| ***0*** | ***3p*** | ***0*** |
| ***8*** | ***3*** | ***11*** |

|  |  |  |
| --- | --- | --- |
| ***11*** | ***G*** | ***13*** |
| ***0*** | ***2p*** | ***0*** |
| ***11*** | ***2*** | ***13*** |

|  |  |  |
| --- | --- | --- |
| ***13*** | ***H*** | ***14*** |
| ***0*** | ***2p*** | ***0*** |
| ***13*** | ***1*** | ***14*** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***ID*** | ***RES*** | ***DUR*** | ***ES*** | ***LF*** | ***SL*** | ***0*** | ***1*** | ***2*** | ***3*** | ***4*** | ***5*** | ***6*** | ***7*** | ***8*** | ***9*** | ***10*** | ***11*** | ***12*** | ***13*** | ***14*** | ***15*** |
| ***A*** | ***2P*** | ***2*** | ***0*** | ***2*** | ***0*** | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***B*** | ***2P*** | ***2*** | ***2*** | ***6*** | ***2*** |  |  | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |  |  |  |
| ***C*** | ***2P*** | ***3*** | ***2*** | ***5*** | ***0*** |  |  | ***2*** | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |  |  |
| ***D*** | ***1P*** | ***2*** | ***4*** | ***8*** | ***2*** |  |  |  |  | ***1*** | ***1*** |  |  |  |  |  |  |  |  |  |  |
| ***E*** | ***1P*** | ***3*** | ***5*** | ***8*** | ***0*** |  |  |  |  |  | ***1*** | ***1*** | ***1*** |  |  |  |  |  |  |  |  |
| ***F*** | ***3P*** | ***3*** | ***8*** | ***11*** | ***0*** |  |  |  |  |  |  |  |  | ***3*** | ***3*** | ***3*** |  |  |  |  |  |
| ***G*** | ***2P*** | ***2*** | ***11*** | ***13*** | ***0*** |  |  |  |  |  |  |  |  |  |  |  | ***2*** | ***2*** |  |  |  |
| ***H*** | ***2P*** | ***1*** | ***13*** | ***14*** | ***0*** |  |  |  |  |  |  |  |  |  |  |  |  |  | ***2*** | ***2*** |  |
| ***Total Resource Load*** | | | | | | ***2P*** | ***2P*** | ***4P*** | ***4P*** | ***3P*** | ***2P*** | ***1P*** | ***1P*** | ***3P*** | ***3P*** | ***3P*** | ***2P*** | ***2p*** | ***2p*** | ***2p*** |  |

* Resource:
* Resource available:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***ID*** | ***RES*** | ***DUR*** | ***ES*** | ***LF*** | ***SL*** | ***0*** | ***1*** | ***2*** | ***3*** | ***4*** | ***5*** | ***6*** | ***7*** | ***8*** | ***9*** | ***10*** | ***11*** | ***12*** | ***13*** | ***14*** | ***15*** |
| ***A*** | ***2P*** | ***2*** | ***0*** | ***2*** | ***0*** | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***B*** | ***2P*** | ***2*** | ***~~2~~***  ***5*** | ***6*** | ***~~2~~***  ***-1*** |  |  | ***x*** | ***x*** | ***x*** | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |
| ***C*** | ***2P*** | ***3*** | ***2*** | ***5*** | ***0*** |  |  | ***2*** | ***2*** | ***2*** |  |  |  |  |  |  |  |  |  |  |  |
| ***D*** | ***1P*** | ***2*** | ***4*** | ***8*** | ***2*** |  |  |  |  | ***1*** | ***1*** |  |  |  |  |  |  |  |  |  |  |
| ***E*** | ***1P*** | ***3*** | ***~~5~~***  ***6*** | ***8*** | ***~~0~~***  ***-1*** |  |  |  |  |  | ***x*** | ***1*** | ***1*** | ***1*** |  |  |  |  |  |  |  |
| ***F*** | ***3P*** | ***3*** | ***~~8~~***  ***9*** | ***11*** | ***~~0~~***  ***-1*** |  |  |  |  |  |  |  |  | ***x*** | ***3*** | ***3*** | ***3*** |  |  |  |  |
| ***G*** | ***2P*** | ***2*** | ***~~11~~***  ***12*** | ***13*** | ***~~0~~***  ***-1*** |  |  |  |  |  |  |  |  |  |  |  | ***x*** | ***2*** | ***2*** |  |  |
| ***H*** | ***2P*** | ***1*** | ***~~13~~***  ***14*** | ***14*** | ***~~0~~***  ***-1*** |  |  |  |  |  |  |  |  |  |  |  |  |  | ***x*** | ***2*** |  |
| ***Total Resource Load*** | | | | | | ***2p*** | ***2p*** | ***2p*** | ***2p*** | ***3pp*** | ***3p*** | ***3p*** | ***1p*** | ***1p*** | ***3p*** | ***3p*** | ***3p*** | ***2p*** | ***2p*** | ***2p*** |  |
| ***Resource available*** | | | | | | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** | ***3p*** |

* Budget baseline:

cost by week:

|  |  |  |  |
| --- | --- | --- | --- |
| ***ID*** |  |  |  |
| ***A*** | ***10*** | ***5*** |  |
| ***B*** | ***10*** | ***10*** |  |
| ***C*** | ***10*** | ***5*** | ***5*** |
| ***D*** | ***5*** | ***5*** |  |
| ***E*** | ***15*** | ***10*** | ***5*** |
| ***F*** | ***20*** | ***6*** | ***4*** |
| ***G*** | ***8*** | ***2*** |  |
| ***H*** | ***15*** |  |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***ID*** | ***Task*** | ***Budget*** | ***1*** | ***2*** | ***3*** | ***4*** | ***5*** | ***6*** | ***7*** | ***8*** | ***9*** | ***10*** | ***11*** | ***12*** | ***13*** | ***14*** |
| ***A*** | ***Specify goals*** | ***15*** | ***10*** | ***5*** |  |  |  |  |  |  |  |  |  |  |  |  |
| ***B*** | ***Study Project*** | ***20*** |  |  | ***10*** | ***10*** |  |  |  |  |  |  |  |  |  |  |
| ***C*** | ***Specify requirements*** | ***20*** |  |  | ***10*** | ***5*** | ***5*** |  |  |  |  |  |  |  |  |  |
| ***D*** | ***Assign***  ***Team*** | ***10*** |  |  |  |  | ***5*** | ***5*** |  |  |  |  |  |  |  |  |
| ***E*** | ***Implementation***  ***plan*** | ***30*** |  |  |  |  |  | ***15*** | ***10*** | ***5*** |  |  |  |  |  |  |
| ***F*** | ***Code software*** | ***30*** |  |  |  |  |  |  |  |  | ***20*** | ***6*** | ***4*** |  |  |  |
| ***G*** | ***Test Project*** | ***10*** |  |  |  |  |  |  |  |  |  |  |  | ***8*** | ***2*** |  |
| ***H*** | ***Project***  ***announcement*** | ***15*** |  |  |  |  |  |  |  |  |  |  |  |  |  | ***15*** |
| ***Total*** | | ***150*** | ***10*** | ***5*** | ***20*** | ***15*** | ***10*** | ***20*** | ***10*** | ***5*** | ***20*** | ***6*** | ***4*** | ***8*** | ***2*** | ***15*** |
| ***Commutative*** | | | ***10*** | ***15*** | ***35*** | ***50*** | ***60*** | ***80*** | ***90*** | ***95*** | ***115*** | ***121*** | ***125*** | ***133*** | ***135*** | ***150*** |

* Risk Management:

Risks:

**-** The application is not compatible with the type of mobile phone.

- None of the volunteers responded to the blind person's request.

- Inappropriateness of the volunteer to the requester for assistance.

To deal with these risks:

* The application supports both Android and IOS systems.
* The app supports auto reply in some cases.
* The application supports an unlimited number of calls.

To monitor the project:

* + Make meetings periodically to follow up on the progress of the project.
  + Make some developments on the project according to users' opinions to ensure complete

user convenience.