

I-Need

Project Advisor

Neşe Şahin ÖZÇELİK

Team Members

Ö. Mert ŞAĞBAN

V. Oğulcan DELİCE

M. Enes KULUK

Mert YILMAZ





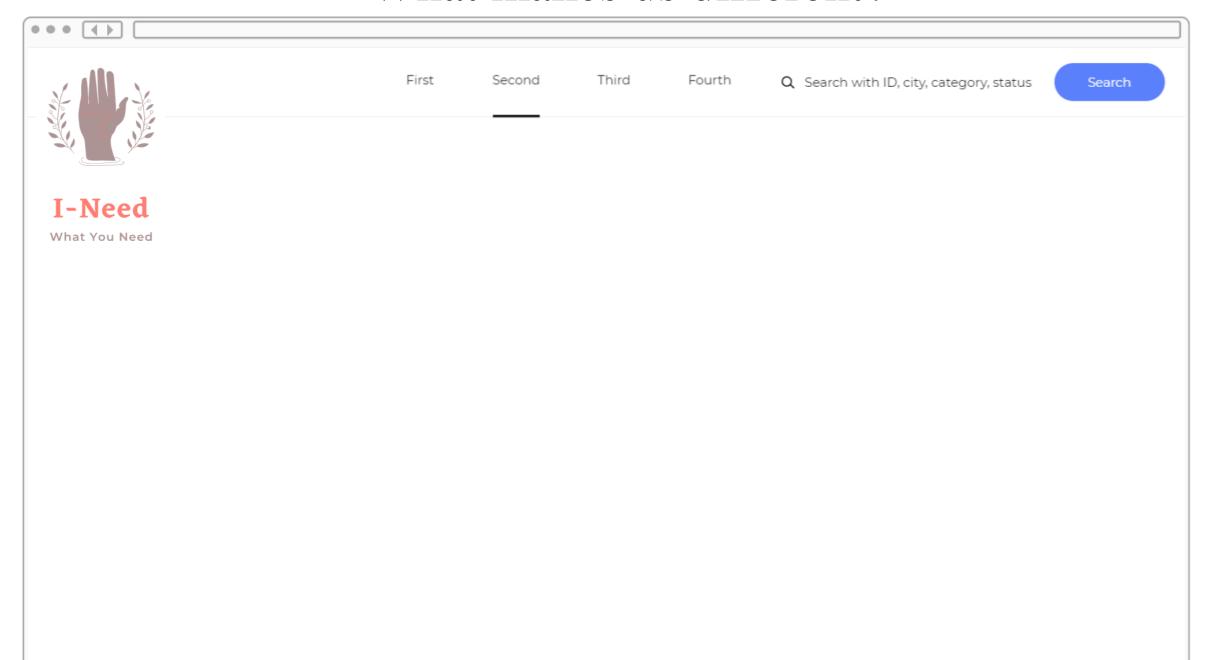
Software Product Identification

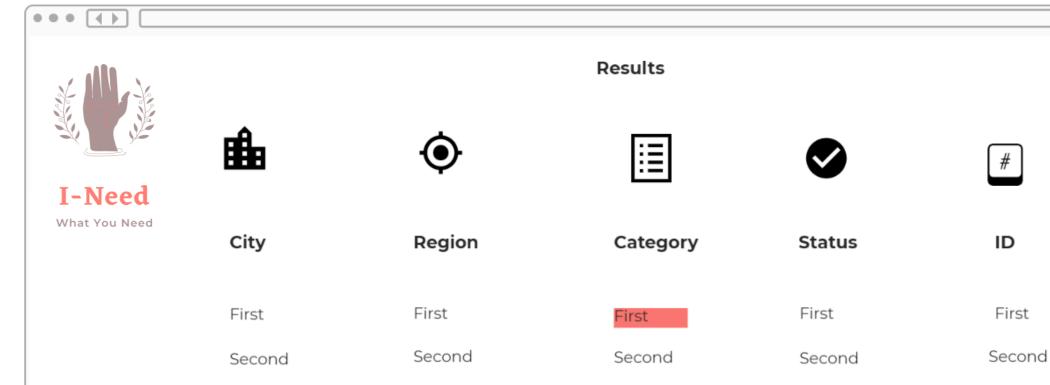




- Mobile application and web based platforms
- Cover up the deficiency in many branches.

What makes us different?









Need Category 💙

Status 💙

APPLY FILTER





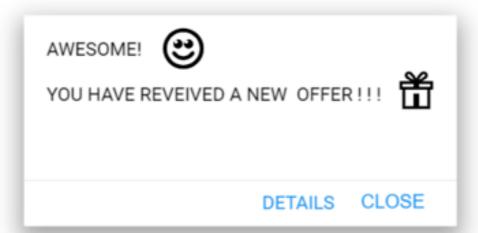


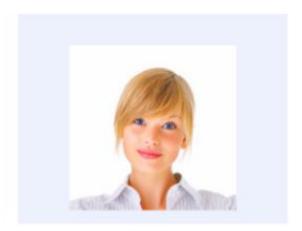




9m ago

Received a new offer





MERT

Wants to help you!



Location: Ankara

Accept Offer

Refuse Offer

RATINGS





Mert

Hi Ahmet! I want to give books that you need. Can you share your location?

5 minutes ago



Ahmet

Hi Mert, Thank you! My students will be really happy:)

5 minutes ago





Location Requested

Mert send you location request. Would you like to share location?

Share

Dismiss

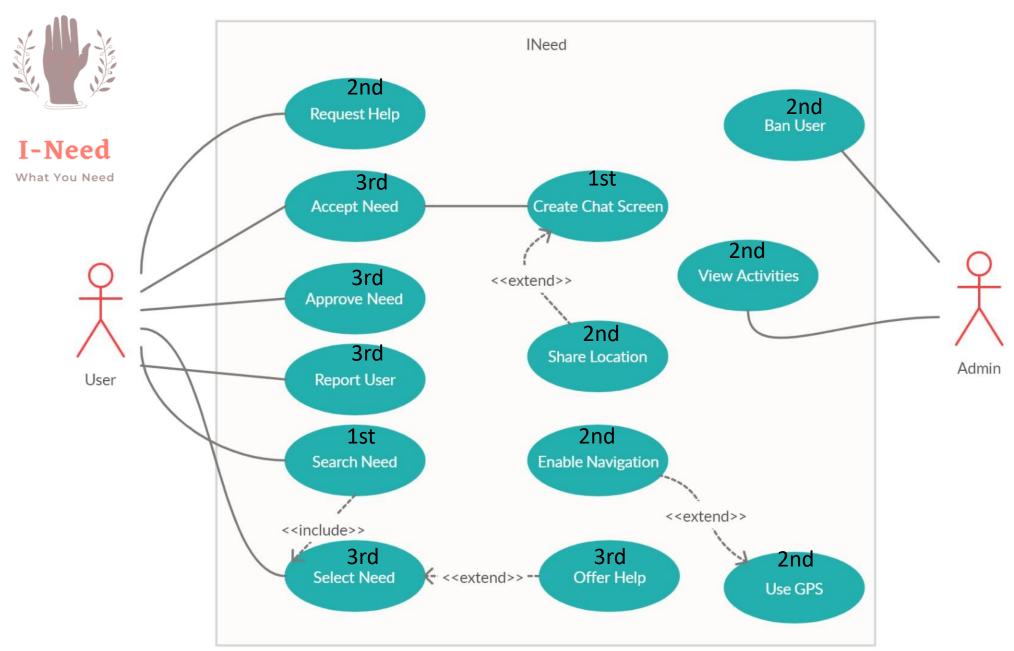
5 minutes ago



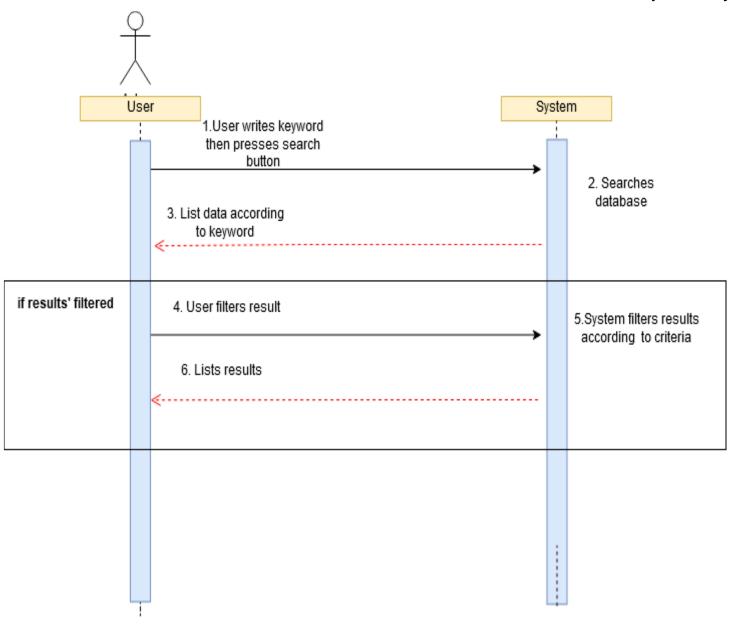
Write message

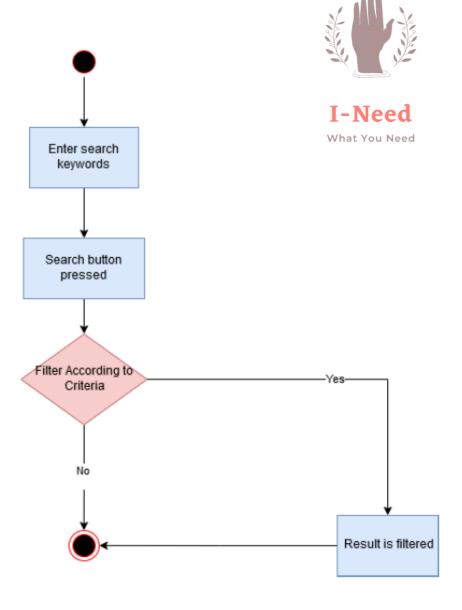
Send

Software Product Requirements



1st Increment (Search)





Software Product Development Environment

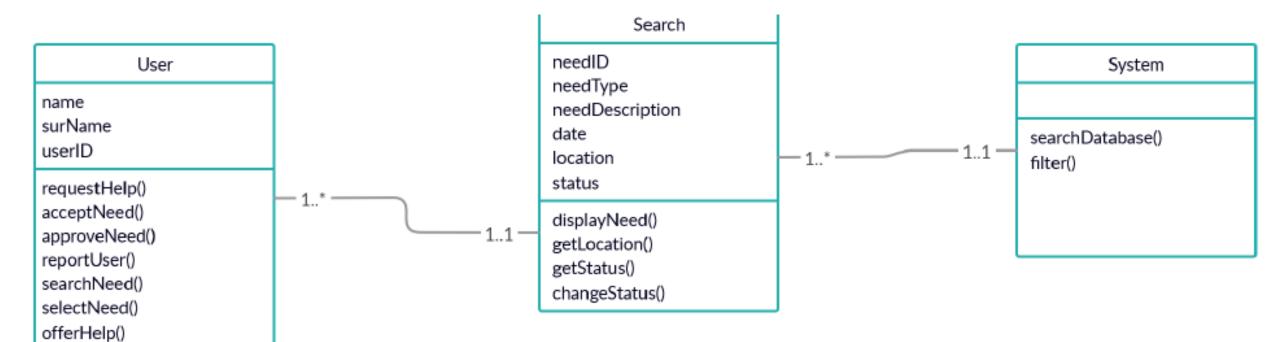


Programming Language	Java, JavaScript
Framework	React.js
Database	Firebase
Version Control	Git
Verification & Validation	Espresso(Android), MochaJS(Web)
Open Source Software	Google Maps API
IDE	Android Studio, WebStorm, Visual Studio Code



Search

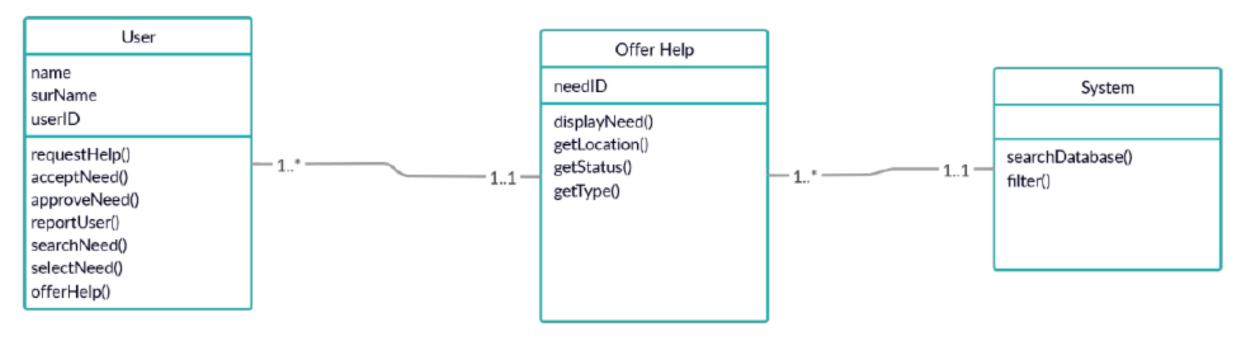






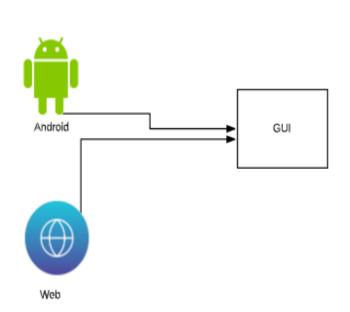
Offer Help

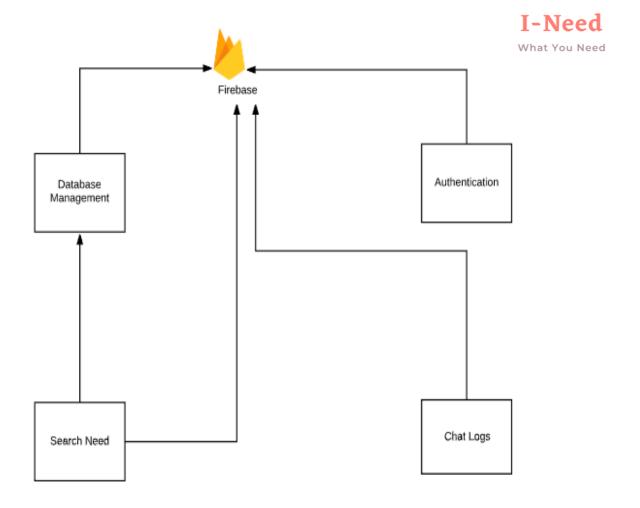




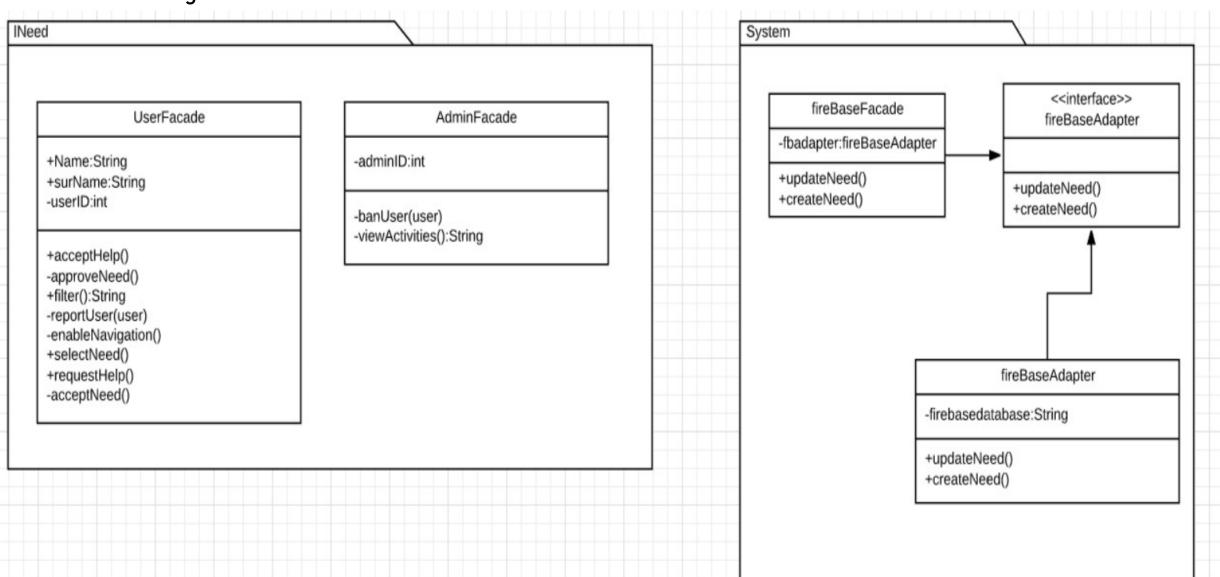


Communication Mechanism





Sub-Systems Interface Design



Quality Requirements

- **Reusability**: I-Need's coding will be done rigorously. Design will be open for extension for any new futuristic in the future.
- **How to achieve:** We use polymorphism, encapsulation, and inheritance precisely throughout our project.
- Example: 'AcceptNeed', and 'ApproveNeed' will be derived from 'Need' super class.
- Maintainability: I-Need repairment will be done in a breeze. Since our concern is the society, our design will not accept any kind of fault or errors.
- **How to achieve:** We assign each subsystem with one particular job to keep our code healthy. Therefore, we will know where is the problem when it occurred.
- Example: 'SelectNeed' class will only be used for selecting among searched criteria.



Quality Requirements

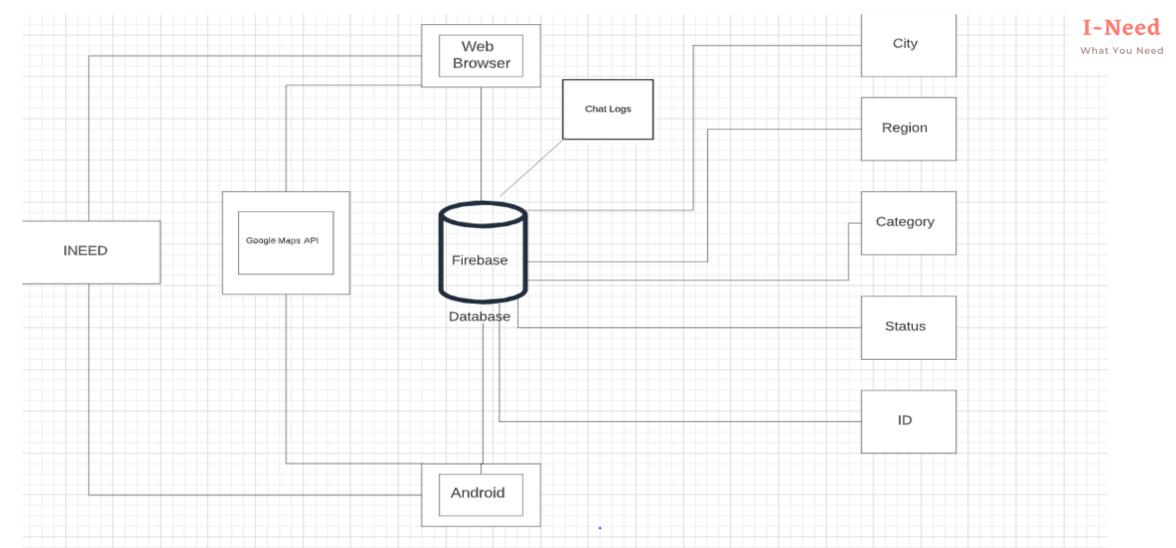


Our design will also implement other non-functional requirements:

- Availability: Our program shall be available 99% of the time.
- **Portability:** Our code should be able to transferable to other platforms.
- Extensibility: Our code provides enhancements without impairing existing system functions.
- Usability: Our program's GUIs will be user-friendly

Physical Architecture





Project Effort, Schedule, and Responsibilities



							wnat you need
9	*		52 days	Mon 2/3/20	Tue 4/14/20		
10	*	Android UI Development	21 days	Mon 2/3/20	Mon 3/2/20		Enes Kuluk,Oğulcan Delice,Mert Yılmaz,Mert Şağban
11	*	Web Development	31 days	Tue 3/3/20	Tue 4/14/20		Mert Yılmaz,Mert Şağban,Enes Kuluk,Oğulcan Delice
12	*	■ Back End Development	59 days	Mon 2/3/20	Thu 4/23/20		
13	*	Authentication	3 days	Mon 2/3/20	Wed 2/5/20		Oğulcan Delice,Mert Yılmaz
14	*	Database Implementation	3 days	Fri 2/7/20	Tue 2/11/20		Enes Kuluk,Oğulcan Delice
15	*	Google Maps API Implementation	14 days	Sun 1/12/20	Wed 1/29/20		Enes Kuluk,Mert Şağban
16	*	Search and Filtering Function Implementation	10 days	Sat 2/29/20	Thu 3/12/20	14	Enes Kuluk,Mert Yılmaz
17	*	Notification Function Implementation	10 days	Fri 3/13/20	Thu 3/26/20		Mert Yılmaz,Oğulcan Delice
18	*	Admin Panel	7 days	Fri 3/27/20	Mon 4/6/20		
19	*	Ban User Implementation	2 days	Fri 3/27/20	Mon 3/30/20		Oğulcan Delice,Mert Şağban
20	*	View Activities Implementation	5 days	Tue 3/31/20	Mon 4/6/20		Oğulcan Delice,Mert Şağban
21	*	△ User Panel	13 days	Tue 4/7/20	Thu 4/23/20		
22	*	Request/Accept Help Implementation	5 days	Tue 4/7/20	Mon 4/13/20		Mert Yılmaz,Oğulcan Delice
23	*	Offer Help Implementation	5 days	Tue 4/14/20	Mon 4/20/20	22	Oğulcan Delice,Mert Şağban
24	*	In-App Messaging Implementation	8 days	Mon 4/13/20	Wed 4/22/20		Mert Yılmaz,Mert Şağban
25	*	Approve Need Implementation	5 days	Fri 4/17/20	Thu 4/23/20	22,23	Enes Kuluk
26	*	Testing	7 days	Fri 4/24/20	Mon 5/4/20	12	Enes Kuluk, Mert Yılmaz, Oğulcan Delice, Mert Şağban
27	*	Final Presentation	4 days	Tue 5/5/20	Fri 5/8/20		Enes Kuluk, Mert Yılmaz, Oğulcan Delice, Mert Şağban

Project Effort, Schedule, and Responsibilities



2nd Incrementation

15	*	Google Maps API Implementation	14 days	Sun 1/12/20	Wed 1/29/20		Enes Kuluk,Mert Şağban
16	*	Search and Filtering Function Implementation	10 days	Sat 2/29/20	Thu 3/12/20	14	Enes Kuluk,Mert Yılmaz
17	*	Notification Function Implementation	10 days	Fri 3/13/20	Thu 3/26/20		Mert Yılmaz,Oğulcan Delice
18	*	▲ Admin Panel	7 days	Fri 3/27/20	Mon 4/6/20		
19	*	Ban User Implementation	2 days	Fri 3/27/20	Mon 3/30/20		Oğulcan Delice,Mert Şağban
20	*	View Activities Implementation	5 days	Tue 3/31/20	Mon 4/6/20		Oğulcan Delice,Mert Şağban
21	*	■ User Panel	13 days	Tue 4/7/20	Thu 4/23/20		
22	*	Request/Accept Help Implementation	5 days	Tue 4/7/20	Mon 4/13/20		Mert Yılmaz,Oğulcan Delice

Project Effort, Schedule, and Responsibilities



3rd Incrementation

20	*	View Activities Implementation	5 days	Tue 3/31/20	Mon 4/6/20		Oğulcan Delice,Mert Şağban
21	*	△ User Panel	13 days	Tue 4/7/20	Thu 4/23/20		
22	*	Request/Accept Help Implementation	5 days	Tue 4/7/20	Mon 4/13/20		Mert Yılmaz,Oğulcan Delice
23	*	Offer Help Implementation	5 days	Tue 4/14/20	Mon 4/20/20	22	Oğulcan Delice,Mert Şağban
24	*	In-App Messaging Implementation	8 days	Mon 4/13/20	Wed 4/22/20		Mert Yılmaz,Mert Şağban
25	*	Approve Need Implementation	5 days	Fri 4/17/20	Thu 4/23/20	22,23	Enes Kuluk
26	*	Testing	7 days	Fri 4/24/20	Mon 5/4/20	12	Enes Kuluk, Mert Yılmaz, Oğulcan Delice, Mert Şağbı
27	*	Final Presentation	4 days	Tue 5/5/20	Fri 5/8/20		Enes Kuluk, Mert Yılmaz, Oğulcan Delice, Mert Şağbı

Product & Process Metrics



PUM (Problems per User-Month)

- It measures the problems that users encounter when using the product.
- It will contain the users' perspective towards the problem.
- Will be calculated monthly.
- Includes the non-defect-oriented problems & defect problems.
- For monitoring purposes.

The equation that we are going to use:

PUM = Defect + Non-Defect oriented problems (for a determined time) + Total number of license months of the software during the period.

Where,

Number of license month of the software = Number of install license of the software * Number of months in calculation period.

Product & Process Metrics





BMI (Backlog Management Index)

- Related to the rate of defects arrivals and rate at which fixes for reported problems become available.
- Count of reported problems that remain at the end of each month.
- For managing(control) and maintenance processes.

BMI = Number of problems closed during the month / Number of problems arrived during the month * 100

As a percentage result.

- If BMI is higher than 100 backlogs are reduced.
- If BMI is lower than 100 backlogs are increased.



I-Need

What You Need

Thank You