

FEASIBILITY ANALYSIS

NU APP

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PROJECT DESCRIPTION

This Application is developed for the students of NIIT University, so as to integrate the Gate pass system, Library system and Nucleus under a single mobile application that will be convenient for the users and reliable.

- The Current system will be made very handy; the users can check their daily required features in a mobile Application.
- Reliable system. Can help in last minute Gate pass.
- Check attendance in a click
- Help in avoiding penalty for late book submission.
- Will function in all platforms.

This App is a new developed mobile application that is a simplified model of the current system that is developed for the students so as to make the current system more approachable and handy. The App is a sub product of a larger system that has been simplified as per the priority needs of the students on the daily basis. The App aims only to project those features that are applicable on daily basis. The App does not replicate the UI/UX of the current system, but to produce a simpler application to access the features that are being repeatedly in use.

CONSTRAINTS:

This application is explicitly developed for the students of NIIT University, which restricts the usage outside the University students. The app will be in English language and will work on older versions of the platform as well, but it is recommended to upgrade. Memory requirements are minimal. Time constraints to develop the App is a challenge. The main issue will be on the constraints that the university poses on the access of the NU Server and Database access.

PRESENT VS FUTURE:

The current system uses three different websites. One for Gate pass, One for attendance and timetable and One for Library management system. As these applications run on websites, it is very difficult for users to keep track of all daily. Thus the hybrid App that will be made will integrate all these functions under one roof in a Mobile application so that the users can use it with ease.

TECHINICAL ASPECTS:

Hardware Interfaces

The hardware to run this Application is very generic, as this is a web App this App can be deployed in any platform, i.e. Android, IOS, Microsoft Windows. Another type of hardware is access to NU database, NU servers, cloud server. API call are used to retrieve the data from database and servers.

Software Interfaces

This Application is built on Linux operating system (Ubuntu). Ionic 2 frameworks are used to improve the GUI of the Web App; Angular 2 modules are used for library including Cordova plugins. For Cloud services, Firebase is used as a Backend as a service which will allow authentication and push notifications. API's are developed to retrieve data from the NU Database.

FEASIBILITY ASSESSMENT:

- 181 Responses recorded.
- 76.8% Want the project to be implemented
- 85.5% Positive response (Want a new simplified system)
- 10.5% Negative responses (Happy with the current system)
- 79% want Library Module to be implemented
- 73.5% want Book Availability feature.
- 65.2% want Due amount feature
- 67.4% want Book availability search feature.
- 76.8% want Gate pass feature.

Some Recorded responses:

"If we can get the notification of our classes like 15 min prior to the beginning of class with the classroom no. And also getting a short list of upcoming events in audi or anywhere in the university just like "inshorts" so that we don't have to check the mil again and again. And respected faculty also don't have to send mail they can open the app directly and update that status there, there should also be the priority option of updates like really urgent or important ones should come at top".

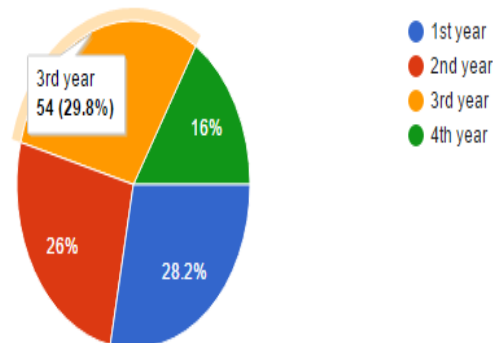
"Add a "stay signed in" option, if possible, or something like "remember username and password". Typing in your username and password everytime while applying for a gatepass, seems a bit annoying".

"All university services like Moodle Gatepass ERP library etc should be centralized into one system, a single website which will perform tasks for all these".

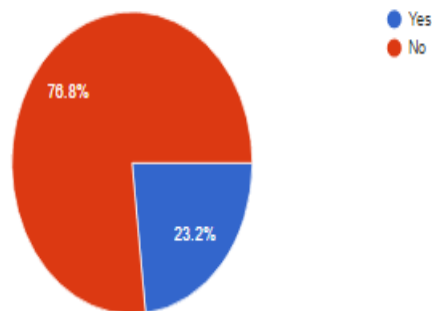
"When the net is not working the guard says he will sign out later. But then we tend to forget and after weeks if i have to put a gatepass its seen that im not signed in. So some notification for the guards or us students".

STATISTICS AND ANALYSIS:

Batch (181 responses)

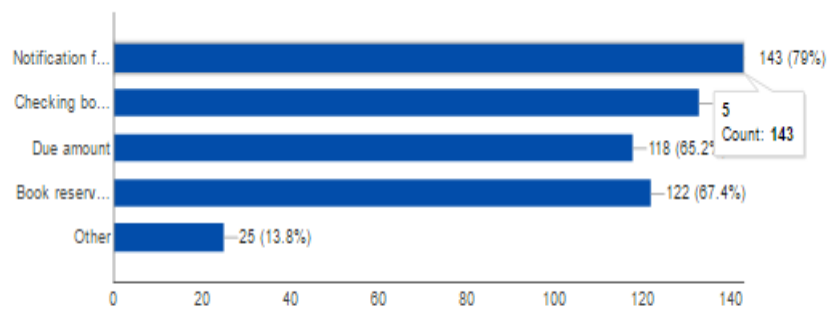


Are you satisfied with the current Gate pass and Library system (181 responses)

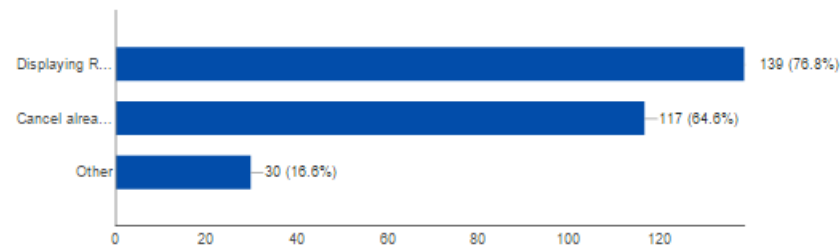


Choose the features you want to incorporate in the Library system

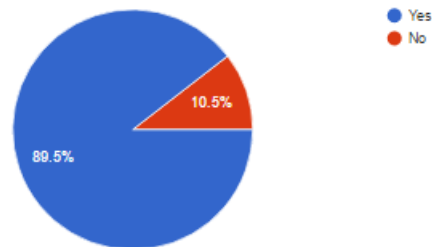
(181 responses)



Choose the features you want to incorporate in the Gate pass (181 responses)



Would you like to download an App that tackle these issues (181 responses)



Any other opinion you would like to suggest ? (50 responses)

no
no
No
No
go for it
Watch POGO
you could incorporate intentio(time table app) as well, this will be a full fledged solution to all my problems, at least in NU. Best of luck for the Project :)

CONCLUSION:

The feasibility analysis resulted in the decision of developing the project. It has been noted that many constraints exist which have to be solved in due course. Positive response from the potential users conclude the positive advancement of the project.