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| **SEN2001 – Programming Languages**  **Project Proposal** |
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| **Project Category(Software Implementation Project / Tubitak Application/ Patent Application):**  Software Implementation |
| **Project Title:** |
| 1. **Summary of your project (approx. 400 words, should include the summary and outline of the project as well as your study plans):**   Our project’s target audience is entrepreneurs who loves to create something.As future entrepreneurs we asked ourselves,what may entrepreneur need ? The answer of this question shaped our application’s feathures.This software will have 3 platforms to operate: Android, ios and in web.We are planning to use a brand new platform called Flutter which uses the dart language and gets its support by Google.In our group we have native android and native-ios developers but according to latest improvments in dart language and Flutter we decided move on from here.When we were taking this decision we listened our designer and took his opinions about material design upgrades and potentials in Flutter.We are thinking a basic but high quaility UI for entrepreneurs whoose heads are full and propably doesnt want to see any complicated screens at least not when they are using our application.We are focusing the idea ‘Always have your basic tools in your hand\*’ this is a very important step for creativity.We are planning to welcome our users with login or if they’re new with a sign up screen.When they are signing up we want to keep name,age,their country and a very short bio.For keeping their data we found the Firestore as the most suitable option. We also considered Feathers and Meteor too but since we are using the support of Google we choose Firebase.Also after signing in user will be able to change their information.Keeping user information is important because we will also implement a board system.With this system user will be able to plan their assignments.In our app you can add multiple boards and in each board you can add multiple checkboxes as well.After you complited your assignments you can delete or set a reminder for your regular tasks.We are also considering to implement a sedantery alarm if user chooses to use.All those notifications will be able to alert you even if user exits our application.Also users will be able to add their friends to their boards.In main page we also want to Show our user to Twitter’s TT list using Twitter’s rest API.And as and entrepreneurs ourselves we think being able to write our ideas with the most simple way is very important so in our app we will implement a FAB button to be able to write down your ideas.You will be able to see them as a list,update and delete them.We will use sqlite to store this notes in your local storage and this means we will create a full CRUD circle.Also entrepreneurs may need a place to discract them from their busy schedule,answer to this question we thought about creating fun zone.In this zone you can expect to see a sudoku or tic tac toe game.Lastly after researching more about an entrepreneurs’ essential websites we will place icons to thoose websites.In web part we will mostly use VueJs along side with Vuetify or Bootstrap-vue. Skeleton will be the same but additionally we will make a chatbot with Diaogflow.Replace fun zone with IO type games and since we have bigger screen our boards system will be more horizontally desgined. |
| 1. **Literature Review (approx. 10 examples)**   In order to make things easier to understand we are dividing our application to parts.Such as:  Board system,reading section,reminders,notepads and chatbots.  Probably the best way to explain what we mean saying board system is looking the idea behind it.The word ‘Kanban’ invented in late 1940’s by Toyota.Kanban method is a answer for how to communicate with the group members, prioratizing your assegments,focusing and increasing productivity.Exact meaning is ‘better communication through visual management’ [LeanKit,What is Kanban,A Very Short History Of Kanban].Simply if you write all of your assignments to seperate post-its and stick them to a place which can be seen by everyone in your group is making a kanban.With digitizing world we replaced post-its with e-kanban softwares such as Trello, Airtable, Asana, Avaza, ClickUp,KanbanTool and Yalla.So let’s take a look at each one of them.  Airtable gives you ‘a view for every work style’ [https://try.airtable.com].It has ios,android and desktop platforms also but as an user if you are not working with very big and very crowded group it feels like you are not doing enough work and it effects your motivation.We can support this idea with looking the companies who uses Airtable.Slack,Buzzfeed,Time and Medium their biggest users and they are all very dynamic and crowded companies.We are targeting more basic kanban,we belive this will bring more motivation to entrepreneurs because they wont be overwelmed by the UI.Asana is more department-based.You can assign assinments to the departments.So it is a great tool if you work with a compony which has a lot of different departments.For example NASA and The NewYorkTimes.If we compare with the AirTable their clients had more dynamic workflow than the Asana.Avaza is a powerful platform for interacting with your clients and it has a very powerfull backup system based on cloud.Great support for webhooks such as Slack and Xero.Also Avaza is relatively more expansive.Clickup is very pretentious in this field.It’s main goal to replace all of his opponents.It is trying to use AI, tries to predictive deadlines.Our application won’t have that but as a group we will look watch that improvements very closely.KanbanTool is looks like excel so we don’t like it’s UI.And it has very serious problems with mobil support.On the other hand you can analysis your work very easly.When we tried Yalla it felt like we are in the Wall Street and looking at the exchange stacks.So it felt like we are in a very stressfull enviorement.Also it was very similar to Trello which is a applicaiton we like the most.Trello is one of reasons why we wanted to add this kanban system in our project.It has very basic UI and it really helps you with the organize your work.You can change the background and add powerups.Checkboxes,Control lists and such.We are also using Trello now,for distribute our tasks.If we sumarize all of it there is lots of kanban-based software fort he big companies or small-dynamic companies.There is user-based ones,one of it uses the AI for deadlines and some of them is really basic and gives you flexability and motivation to create.The last argument is the main feature we will try to implement in our software.Cultivating a creativty habit and limiting your options to focus in are essential for creativity according to Michaela Cristallo [7 Basic Rules of Creativity You Should Know].  One of the features our application will have is a reading section.In this part user will be able to see what’s new in the world.There is hundreds of application in the market but we are not trying to be a news app, we want to show some headlines to user the user while they are trying to plan their day. We will summarize some of those applications which we get our inspiration from.  One of the most popular is called Feedly.Feedly is offering various type of sources and topics.You can easly read and share.Also it is importable with Facebook,Slack,Trello and such so you can basicaly access it from anywhere.But in our case we don’t trying to achive this.More like you grab newspaper and you just read that superficially and if you have time you will continue to read it.Another alternative for this kind of applications named Flipboard.Our first meeting with Flipboard was not intentionally.It was already installed on the phone we first bought it.It is a very inovative applivation.You can create your own magazine.Also you can share those magazines and add people fort o contribute your work.This kind of system remindes us the kanban we early mentioned.Connecting people is definitely a thing we will work about. There is an another app called Pocket and it has a same philosophy with Flipboard.You can create your own feed with a difference.Pocket doesn’t give you the content.You have to get it from somewhere like NYT,or youtube or twitter.Very different idea but we think that will cause a lot of waste of your time.Reddit is our favorite. **‘**Get the Best of What Really Interests You**‘** is Reddit’s motto.Now with the latest verison of Reddit you can find or create groups to chat.Obviously you can read news or articles which isn’t written only by journalists.We are getting a lot of inspiration from Reddit but we need a little bit more news-content so we will make some adjustments.Twitter is our another great tool for seeing world’s agenda and it’s very good at it so we are considering adding TT list to our app.Lastly there is an another app worth to mention.It is made by Google and called Google Now.Idea is same,just take a newspaper and when you have time take a look inside.You can select your source and display as a timeline.  Another field we will research about it is taking notes.So we researched notepads in the market.The most popular one called Evernote.Like Flipboard it was already intalled on the phone.We can say it is very powerfull.You can take notes while are you are surfing internet.Copy from the source and add audio too.Like in every other field Google has something called Google Keep.The best thing is “You can capture your thoughts in any format”.It has Android Wear support which we think is something very important.But if you want to feel more proffesional there is OneNote by Microsoft.It is part of the Microsoft Office products.We consider OneNote is the most powerfull one.You can access it from anywhere and share it.But in our case this feels so formal and violate the rule of creativity which is ‘Always Have Your Basic Tool at Hand’.So we will take notes from the ColorNote.Which is very basic but essential app.There is callendar support and to-do list features.Another app which uses Kanban so it is a great example for us.  We also think entrepreneurs are very busy people and sometimes they can forget things even though they wrote by themselves.So reminders are very important.We will implement to our boards reminder options.So we looked the most popular ones in the market.There is an app called Any.Do.It has very plain UI.There is today,tommorrow and upcoming lists.It is simple yet not very good for planning.Then there is Todoist.Very profesional design.Users have their own profiles,inboxes and collaboration options.Collaboration is very important for our app to so Todoist is a very good example.There is an app called Wunderlist.It is very similar to our grocery list in real life.Because of this similarity WunderList’s UI will be our guide.But in our app we don’t want to seperate reminders from kanban.Just set a date for the board and app will send you notifications periodically or one-time only. |
| 1. **Project details & Flowcharts** |