**Respondent’s Profile**

Experience: 25 years.

Role: CTO (Chief Technology Officer)

**Quotes**

Similarly, …. these API were also designed long back when we were supporting desktop applications. So when we enabled the mobile applications, we did not think of changing the APIs right. They continue to consume or reuse the same APS that were built for desktop scenarios.

During [travel] time, the energy on the on the device is limited, so they cannot be waiting for the mobile to go off or battery gets drained. They are expecting the entire battery to drive at least 8 to 9 hours during that day, right? So it takes quite a bit of time in bigger cities like Hyderabad, Mumbai, where people are not expected to come back to home and recharge their devices. So I do find a lot of usability [of RMVRVM] in such scenarios.

I went through complete article [JSS paper]. I found it very much relatable, very simply explained, very simple terms that you have used to describe the pattern and lot many times it is making more sense for us to go and adopt this.

It's very simple, so anyone can pick up and learn.

[By using RMVRVM] We are able to continue and maintain the functionality at the same time provide energy efficient application to the end user.

I have already shared this [JSS paper] with all my architects teams and have been asking them [to use it] wherever it is possible. We are working on a super app, that has existing API's built for desktop. I'm actually pushing our team to go and make them lightweight, provide the data as required only using this pattern. I'm actually proponent of of this pattern.

**Replies (edited)**

Q1. Do you or your team work actively on an app/web app that runs on a battery-operated device like a phone, a tablet or a laptop?

Yes.

Q2. Does the app use API that could be sending more data than required on the client side in the UI?

Yes. It’s almost always the case.

Q3. Could the RMVRVM paradigm be followed in the project that your team is doing to save energy on client devices?

Yes. I find a lot of usability of RMVRVM.

Q4. Which of the following issues do you think could the RMVRVM paradigm face when followed in your project?

a) UI of app is too complex to move to server-side

No. UI complexity may not be a blocker there.

b) Collaboration issues because front-end and back-end teams are different

Yes. This could be a challenge.

c) The project cannot implement a change due to tight delivery milestones

Yes.

d) The paradigm has a high learning curve

No

Q5. The RMVRVM approach could be applied in app/web app gradually, starting from the feature under development, taking one UI page at a time. How likely is it that your team can adopt RMVRVM using this approach?

a)Very Likely b)Somewhat Likely c)Unlikely d)Not at all

Very Likely.

Q6. How likely are you to discuss the RMVRVM paradigm in your organization or team to explore its applicability?

a)Very Likely b)Somewhat Likely c)Unlikely d)Not at all

Very Likely.

Q7. How likely are you to explore further the RMVRVM paradigm in your organization by recommending a pilot or an intern project?

a)Very Likely b)Somewhat Likely c)Unlikely d)Not at all

Very Likely.

Q8. What is your opinion on the applicability or potential of real-world usage of the RMVRVM paradigm?

As I described, right, so there are there are too many scenarios where we can use this pattern and see the benefits

Q9. What are the constraints you see that could hinder applying the RMVRVM paradigm in the source code of your current project?

Adoption requires influencer network and adoption by big 5 companies.

**Original Transcript:**

0:0:0.0 --> 0:0:0.600  
Lavneet  
Yeah.

0:0:0.860 --> 0:0:1.60  
Gangadhar Heralgi  
Yeah.

0:0:0.660 --> 0:0:6.60  
Lavneet  
So I can never thank you for agreeing to take this interview call.

0:0:7.110 --> 0:0:22.920  
Lavneet  
So I will I, as I have told you, that we have already shared the details of the approach with you and also the set of questions so that you can, you know, come prepared with your thoughts and this is not a surprise to you and it will be very valuable your feedback.

0:0:35.370 --> 0:0:35.610  
Gangadhar Heralgi  
Sure.

0:0:23.100 --> 0:0:42.830  
Lavneet  
So we will start with the if you constructions from your side and then I will present the similar set of slides that I have already shared the video of with you and then we will go through a few questions you can, you know answer then and then share your thoughts as we proceed something.

0:0:44.180 --> 0:0:44.610  
Gangadhar Heralgi  
Sir.

0:0:44.680 --> 0:0:45.730  
Gangadhar Heralgi  
Hi Lavneet.

0:0:49.230 --> 0:0:49.480  
Lavneet  
Here.

0:0:46.120 --> 0:0:52.170  
Gangadhar Heralgi  
Thank you so much for having me here and thanks for considering me part of the survey.

0:0:52.720 --> 0:1:5.730  
Gangadhar Heralgi  
So my name is Gangadhar Heralgi and I have been in the industry, especially in the enterprise web applications distributed applications development.

0:1:5.740 --> 0:1:8.310  
Gangadhar Heralgi  
I have been an architect throughout my life.

0:1:8.420 --> 0:1:10.220  
Gangadhar Heralgi  
In the past 25 years, I have spent.

0:1:11.770 --> 0:1:16.20  
Gangadhar Heralgi  
Several of these years building applications for banks?

0:1:16.250 --> 0:1:20.920  
Gangadhar Heralgi  
Ohh, insurance industry, especially insurance industry in India.

0:1:21.720 --> 0:1:22.300  
Gangadhar Heralgi  
Uh.

0:1:22.500 --> 0:1:38.210  
Gangadhar Heralgi  
Then I worked in Microsoft for about 8 years as part of Visual Studio team and we no after ohh Microsoft I joined with my couple of friends there started Monocept.

0:1:54.50 --> 0:1:54.190  
Lavneet  
Yeah.

0:1:38.840 --> 0:2:5.650  
Gangadhar Heralgi  
I took the role of technology and delivery, so my designation currently is Chief Technology Officer at MONOCEPT and I I find the definitely the the article that you shared very relevant for the work that we do because as part of web development natural extension to that is the offering, the same web services on the mobile devices.

0:2:6.300 --> 0:2:6.470  
Lavneet  
Yeah.

0:2:13.710 --> 0:2:14.190  
Lavneet  
OK.

0:2:5.660 --> 0:2:28.40  
Gangadhar Heralgi  
And we do find places where I I could relate to the article at many places, so that's that's a brief about me as of today at monocept we are about 400 people continue helping our customers in in solving their complex problems at enterprises. Right.

0:2:28.140 --> 0:2:28.550  
Lavneet  
Thank you.

0:2:28.490 --> 0:2:28.860  
Gangadhar Heralgi  
Yeah.

0:2:28.810 --> 0:2:29.140  
Lavneet  
Thank you.

0:2:28.960 --> 0:2:29.300  
Gangadhar Heralgi  
Thank you.

0:2:30.380 --> 0:2:33.810  
Lavneet  
So we will move to the next step, Julie.

0:2:34.620 --> 0:2:34.930  
Gangadhar Heralgi  
Umm.

0:2:33.820 --> 0:2:36.170  
Lavneet  
Thank you for your great introduction.

0:2:36.660 --> 0:2:39.670  
Lavneet  
I will share my screen for that presentation.

0:2:39.720 --> 0:2:48.940  
Lavneet  
I'll spend a few minutes on the approach that I was describing about earlier, and then we can go to the questionnaire, OK.

0:2:49.510 --> 0:2:49.750  
Gangadhar Heralgi  
Sure.

0:2:50.900 --> 0:2:51.360  
Lavneet  
All good.

0:2:51.370 --> 0:2:51.840  
Lavneet  
Thank you.

0:2:52.80 --> 0:2:53.420  
Lavneet  
I'm just sharing that doesn't.

0:3:4.510 --> 0:3:4.920  
Gangadhar Heralgi  
Good.

0:3:0.640 --> 0:3:6.750  
Lavneet  
Are you able to see the deck and presentation?

0:3:5.170 --> 0:3:7.550  
Gangadhar Heralgi  
Yes, I can't see. Yeah.

0:3:8.740 --> 0:3:9.190  
Lavneet  
Yeah.

0:3:9.200 --> 0:3:21.660  
Lavneet  
So we had basically presenting in a like a kind of modified approach to applications which are cloud connected and have a heavy user interface or user interaction on the devices.

0:3:22.550 --> 0:3:34.160  
Lavneet  
So we think that the devices that are running on a battery like smartphones, tablets and even smartwatches could be benefiting from this in two ways.

0:3:34.170 --> 0:3:40.630  
Lavneet  
One is there battery connections would reduce and their response time is also likely to improve.

0:3:41.440 --> 0:3:41.760  
Gangadhar Heralgi  
Umm.

0:3:41.460 --> 0:4:0.200  
Lavneet  
So it is the latter 2 basically modifying the MVVM architecture which is model, view, view, model thing where we have set of UI pages that we show to the user and underlying there are more objects called view models which are tied to this UI page elements.

0:4:0.650 --> 0:4:13.10  
Lavneet  
So whatever data that comes in view model, the framework that we use for this UI developer learning it automatically puts that update data into the UI view and vice versa.

0:4:13.220 --> 0:4:15.370  
Lavneet  
So this is like you.

0:4:15.410 --> 0:4:24.380  
Lavneet  
This is view model and then the view models are prepared from the data models, which generally are objects or collections of objects which with much more detail.

0:4:25.230 --> 0:4:25.500  
Gangadhar Heralgi  
Umm.

0:4:25.160 --> 0:4:36.320  
Lavneet  
So what ends up happening is this data model objects or collections of such objects are coming from the API calls that the client side is meeting and it collects them here.

0:4:36.700 --> 0:4:47.710  
Lavneet  
And because this data model is or even a single object is not directly, you know mapped to the UI that is required or the data that is required in the UI.

0:4:47.940 --> 0:4:54.330  
Lavneet  
So we end up creating view model objects by doing these operations, filtering, sorting or searching through this.

0:4:54.760 --> 0:5:10.60  
Lavneet  
And even after that, we have observed in many applications there there is access data that is line just like that because we got it from the API calls here to access data is coming there the data is not in the format or structure that is required in the UI.

0:5:10.100 --> 0:5:17.180  
Lavneet  
So we end up, you know, restructuring its filtering gate, sorting gate, searching through it to make it make the view models ready.

0:5:19.560 --> 0:5:19.840  
Gangadhar Heralgi  
Umm.

0:5:17.190 --> 0:5:40.870  
Lavneet  
And then it shows up in the US so because of this, we end up processing the data that is generally overall processing of the data which consumes the battery on the on the phones or the battery operated devices, and additionally, because many times the data is just lying over, there has not been used that data travels through networks.

0:5:40.880 --> 0:5:42.800  
Lavneet  
So that is that was kind of unnecessary.

0:5:43.680 --> 0:5:54.350  
Lavneet  
So these two things, we are basically trying to tackle in our approach of remote model view and remote view model RMB RVM packing, which is kind of evolving the MVVM.

0:5:54.640 --> 0:5:55.10  
Lavneet  
Wow.

0:6:11.500 --> 0:6:11.720  
Gangadhar Heralgi  
Umm.

0:5:55.340 --> 0:6:17.970  
Lavneet  
So what we say basically is that with these two goals that we shouldn't have any processing on the device and shouldn't put any access data onto the client, more data that is not required should travel to the client through how we can make that possible is basically I have the arrangement of this view models on the server side itself.

0:6:18.20 --> 0:6:34.590  
Lavneet  
So we already know the server side what exactly is required on the client side in terms of user interface and we prepare that data in the server side only in response to let's say page showing up on the screen in the application.

0:6:34.800 --> 0:6:35.720  
Lavneet  
So we prepared that.

0:6:36.580 --> 0:6:42.600  
Lavneet  
And so from the remote model and similar data collection which would be getting from database or other other places.

0:6:43.400 --> 0:6:52.480  
Lavneet  
So we've prepared that model in the server side, prepare the response to the application and send that view model as a DSL to the client side.

0:6:53.130 --> 0:6:56.800  
Lavneet  
Now the idea is that this view model is exactly what is required in the UI.

0:6:57.80 --> 0:7:2.370  
Lavneet  
So here also view model object is there but is there exactly 2 of what we have in the server side.

0:7:8.180 --> 0:7:8.390  
Gangadhar Heralgi  
That.

0:7:2.380 --> 0:7:11.630  
Lavneet  
So we are calling this as view module proxy because this for the UI paradigm or UI is that we are doing, we need to have a binding here.

0:7:12.270 --> 0:7:32.260  
Lavneet  
So that's very it is required here, but it will not require any processing any filtering anything else because the Jason that has come back from the client from the server side is exact map to whatever view model has the the requirement and therefore it is can be directly shown to the user interface.

0:7:32.780 --> 0:7:33.30  
Gangadhar Heralgi  
Umm.

0:7:32.550 --> 0:7:38.170  
Lavneet  
So there is no processing on the device side and no excess data coming through network on the client side.

0:7:39.40 --> 0:7:50.20  
Lavneet  
So, but we also did was we conducted an experiment where we built a cross platform application which could run on iPhone and Android phones.

0:7:50.30 --> 0:7:58.630  
Lavneet  
So we had three Android phones, one iPhone, and it could opt for example, if you can see here, use this RN BRB paradigm.

0:7:58.640 --> 0:7:59.230  
Lavneet  
Yes, no.

0:7:59.680 --> 0:8:20.510  
Lavneet  
So if you opt for no, it will execute the task locally on the device, and if you let's say opt for yes it will send the request of task invitation to the server side, execute that task and once it completes same same task it will search send the data back with that data is basically saying the task got completely.

0:8:24.540 --> 0:8:24.860  
Gangadhar Heralgi  
Umm.

0:8:20.520 --> 0:8:32.590  
Lavneet  
So the task ID and it's status it will show here so that this application we could, you know flip between using RMB RBM and not using RMB RBM.

0:8:33.0 --> 0:8:36.590  
Lavneet  
And then we measured the drop of the.

0:8:36.720 --> 0:8:40.570  
Lavneet  
I mean then action of the battery and the runtime start status.

0:8:40.580 --> 0:8:41.970  
Lavneet  
What was the status at the start?

0:8:42.360 --> 0:8:47.250  
Lavneet  
How much it has been discharged and what is the time duration and all that data we capture.

0:8:48.20 --> 0:8:52.880  
Lavneet  
So what we observed is this blue line is the data or the battery consumption.

0:9:11.850 --> 0:9:12.250  
Gangadhar Heralgi  
Yeah. Umm.

0:8:52.890 --> 0:9:18.320  
Lavneet  
Sorry, when the NVM option is set and this orange one is the a line when the phone is connected via Wi-Fi and RNVR VM is connected and this Gray one is for when the phone is connected via 4G, that connection not Wi-Fi but in both origin Gray case we are using the Alan, BRB and Blue case.

0:9:20.780 --> 0:9:21.40  
Gangadhar Heralgi  
OK.

0:9:18.610 --> 0:9:32.120  
Lavneet  
We are using the MBM so this this observation also I mean this data can battery invention on this phone includes the backing invention that will happen due to the network.

0:9:32.320 --> 0:9:36.570  
Lavneet  
So in this case of RBM, only task is executing.

0:9:36.580 --> 0:9:48.840  
Lavneet  
On this phone, there is no traffic required across the network, but in our RMBR, in case it is required, right, because it is getting the data from about the task status.

0:9:49.270 --> 0:9:57.440  
Lavneet  
So MBN, node network and MLB Network includes plus the display and all, so including the network.

0:9:57.500 --> 0:10:9.320  
Lavneet  
Also be observed that battery Kadam Sunder deals in all four devices and then what we also did was did they open source the case study.

0:10:14.90 --> 0:10:14.400  
Gangadhar Heralgi  
Umm.

0:10:9.450 --> 0:10:17.900  
Lavneet  
So we picked up a cross platform application called Restaurant app and we just ran it and measure this energy to them.

0:10:18.100 --> 0:10:22.280  
Lavneet  
Then it is like as it is using the MVVM pattern.

0:10:22.290 --> 0:10:24.270  
Lavneet  
So by default it was using the MVVM pattern.

0:10:25.130 --> 0:10:28.70  
Lavneet  
Then we migrated it to RMB RMB.

0:10:28.680 --> 0:10:31.200  
Lavneet  
I've created a server side API.

0:10:33.530 --> 0:10:33.940  
Gangadhar Heralgi  
Gotcha.

0:10:45.950 --> 0:10:46.200  
Gangadhar Heralgi  
Umm.

0:10:31.620 --> 0:10:48.470  
Lavneet  
Had that the of UI view models moved to the server side, and then we observed one that the vertical option reduces and in addition to that the response time also got reduced, it was much much more responsive.

0:10:50.80 --> 0:10:52.550  
Lavneet  
To the tabs and the you know updates.

0:10:52.860 --> 0:10:56.720  
Lavneet  
Placing the orders, selecting the menus, cetera so.

0:10:59.320 --> 0:11:11.450  
Lavneet  
So after that we also have come up with a with an I2C that if this paradigm can be doctored in industry, and we realize that it might be not easy to adopt it.

0:11:11.460 --> 0:11:22.410  
Lavneet  
So we have come up with a migration framework also clear set of guidelines like if you have an email artifact how you can transform it into an RDBMS space artifact and what you should do.

0:11:22.460 --> 0:11:31.500  
Lavneet  
So step by step guidance, we have also tried to come come up with so that you know it is more convenient or predictable.

0:11:32.700 --> 0:11:39.990  
Lavneet  
Uh steps that we can tell to the to potential wherever team that can apply this new paradigm.

0:11:40.560 --> 0:11:50.750  
Lavneet  
Also, we say that the caching is a one advantage that we might get when we have a data you know collected from different clients on the server side.

0:11:50.940 --> 0:11:55.830  
Lavneet  
Many things would be common, like menu items or item details or something like that.

0:11:55.840 --> 0:11:59.740  
Lavneet  
So those can be cached which otherwise not lying on individual devices.

0:12:0.190 --> 0:12:0.450  
Gangadhar Heralgi  
Mm-hmm.

0:12:0.120 --> 0:12:8.60  
Lavneet  
So these things we saw, but as usual, one paradigm cannot solve every scenario or it may not be applicable.

0:12:8.70 --> 0:12:17.60  
Lavneet  
So what we know that and we Arabian may may not be or need not to be applied to applications like the ones who are standalone applications on phones like games.

0:12:17.800 --> 0:12:27.510  
Lavneet  
Uh, probably those applications which I have high functionality for in the offline mode because in RDR PM you need to connect to the server side.

0:12:28.230 --> 0:12:28.660  
Lavneet  
Umm.

0:12:28.750 --> 0:12:59.140  
Lavneet  
Also, in some applications where UI is not a primary consumer of the battery, for example music streaming application where I'm just listening to music and with my display off, so those kind of application may not need a MLB paradigm and also because some application are like running on the phone but they do not have their own third phone back end, they are just directly connected to some third party API services and they don't have control over that.

0:12:59.710 --> 0:13:0.100  
Gangadhar Heralgi  
We.

0:13:6.760 --> 0:13:7.270  
Gangadhar Heralgi  
Pretty about that.

0:12:59.150 --> 0:13:7.490  
Lavneet  
So that's why, uh, you know it will require complete rearchitecture we will have to create their own API and then connect to these third parties.

0:13:9.190 --> 0:13:9.490  
Gangadhar Heralgi  
Umm.

0:13:7.500 --> 0:13:10.30  
Lavneet  
And so in case they need to have this.

0:13:10.320 --> 0:13:10.790  
Lavneet  
So.

0:13:11.620 --> 0:13:15.790  
Lavneet  
So these are the basically limitations of the paradigm.

0:13:16.180 --> 0:13:22.770  
Lavneet  
Now July, I will just stop the sharing and we can just go through the questions.

0:13:22.780 --> 0:13:25.790  
Lavneet  
Maybe you can share your thoughts based on those questions.

0:13:26.490 --> 0:13:28.700  
Gangadhar Heralgi  
Umm, certain?

0:13:26.140 --> 0:13:29.360  
Lavneet  
OK, so I'm stopping this evening.

0:13:30.490 --> 0:13:30.940  
Lavneet  
Thank you.

0:13:31.420 --> 0:13:31.600  
Gangadhar Heralgi  
Sure.

0:13:46.200 --> 0:13:46.450  
Gangadhar Heralgi  
Umm.

0:13:31.350 --> 0:13:47.920  
Lavneet  
So my first question is that so a which I think you already answered in your introduction, but do you or your team work actively on applications or whether application that's unknown devices like phones that list laptops?

0:13:48.660 --> 0:13:49.200  
Gangadhar Heralgi  
Umm.

0:13:49.620 --> 0:13:54.380  
Gangadhar Heralgi  
I think Yep, many applications, in fact, almost in today's world.

0:13:54.950 --> 0:13:59.860  
Gangadhar Heralgi  
Uh, we whatever applications that we work on be at our insurance offerings.

0:14:0.690 --> 0:14:1.180  
Lavneet  
Umm.

0:14:0.600 --> 0:14:5.140  
Gangadhar Heralgi  
A lot of our applications are about onboarding customer.

0:14:6.250 --> 0:14:6.510  
Lavneet  
Correct.

0:14:5.550 --> 0:14:8.440  
Gangadhar Heralgi  
So many agents use these applications.

0:14:12.320 --> 0:14:12.600  
Lavneet  
Good.

0:14:23.160 --> 0:14:23.420  
Lavneet  
Umm.

0:14:28.0 --> 0:14:28.180  
Lavneet  
It's.

0:14:8.790 --> 0:14:30.250  
Gangadhar Heralgi  
Agents are on the field, as you know, so they are carrying their devices like phone or tablet and they they illustrate the offerings, the product offerings of the insurance companies and then where whatever customer likes they follow the journey there onboarding customer, they trading apps that we work with.

0:14:30.260 --> 0:14:40.450  
Gangadhar Heralgi  
One of our esteemed customer in trading business, uh, they have this kind of scenario where large chunk of data gets transferred between server and client.

0:14:43.230 --> 0:14:43.470  
Lavneet  
OK.

0:14:48.410 --> 0:14:48.860  
Lavneet  
Great.

0:14:48.870 --> 0:14:49.200  
Lavneet  
Thank you.

0:14:40.460 --> 0:14:49.330  
Gangadhar Heralgi  
So many applications are there, I can go on where this kind of client server interactions are there, right? Yeah.

0:14:50.730 --> 0:15:1.380  
Lavneet  
And in your like your observation, have you observed that the application that use the API it could be sending more than required data on the client side.

0:15:3.0 --> 0:15:5.430  
Gangadhar Heralgi  
It's almost always the case, right?

0:15:5.480 --> 0:15:13.950  
Gangadhar Heralgi  
So now the the data is is never never sent to whatever the the user wants.

0:15:17.460 --> 0:15:17.700  
Lavneet  
Umm.

0:15:29.410 --> 0:15:29.640  
Lavneet  
Correct.

0:15:14.280 --> 0:15:36.720  
Gangadhar Heralgi  
For example, one of our trading app, actually the server broadcast all the 10,000 symbols that exists on BSc RNC, whereas the customer on his mobile phone is interested in only 5 or 10 symbols that he is tracking and so that what we call as thick data that continuously keep changing the price and volume last, uh price it got related and not.

0:15:37.170 --> 0:15:46.140  
Gangadhar Heralgi  
So there's a huge chunk of data that get broadcasted over the network because there's only a minimal amount of data that gets used on the client side.

0:15:46.740 --> 0:15:47.20  
Lavneet  
OK.

0:15:55.60 --> 0:15:55.350  
Lavneet  
Umm.

0:15:46.290 --> 0:16:1.370  
Gangadhar Heralgi  
Similarly, when we talk about the particular illustration and all, we've had a lot of information about all the products, uh, from the EPA, all the add ONS, it's never limited to these.

0:16:1.380 --> 0:16:6.450  
Gangadhar Heralgi  
These API were also designed long back when we were supporting desktop applications.

0:16:6.780 --> 0:16:14.550  
Gangadhar Heralgi  
So when we enabled the mobile applications, we did not think of changing the APIs right.

0:16:18.50 --> 0:16:18.490  
Lavneet  
Everything.

0:16:14.560 --> 0:16:20.270  
Gangadhar Heralgi  
They continue to consume or reuse the same APS that were built for desktop scenarios.

0:16:21.520 --> 0:16:23.540  
Gangadhar Heralgi  
Hope that answers your question right, yeah.

0:16:21.190 --> 0:16:24.20  
Lavneet  
Exactly and yes.

0:16:24.30 --> 0:16:24.910  
Lavneet  
Yes, very much.

0:16:24.920 --> 0:16:25.220  
Lavneet  
Thank you.

0:16:36.360 --> 0:16:36.700  
Gangadhar Heralgi  
Umm.

0:16:25.980 --> 0:16:40.550  
Lavneet  
So the next question is, could the paradigm are MRBM paradigm be followed in the project that your team is working on a specifically to specially like for saving the energy on the client device.

0:16:44.460 --> 0:16:45.260  
Gangadhar Heralgi  
I think very much.

0:16:40.600 --> 0:16:46.820  
Lavneet  
Is that point of interest to you that it will save the nothing that client says? Yeah.

0:16:46.860 --> 0:16:47.230  
Gangadhar Heralgi  
Yeah.

0:16:47.280 --> 0:16:49.990  
Gangadhar Heralgi  
I think very much as I described right.

0:16:55.770 --> 0:16:55.950  
Lavneet  
Yeah.

0:16:50.100 --> 0:17:0.30  
Gangadhar Heralgi  
So one of our customer whom we serve in the in the the trading industry there end customer who is actually trading using mobile apps.

0:17:0.40 --> 0:17:1.650  
Gangadhar Heralgi  
They are always on the travel.

0:17:2.500 --> 0:17:2.890  
Lavneet  
Sure.

0:17:1.960 --> 0:17:8.910  
Gangadhar Heralgi  
They're either sitting in the car and going to their offices, or returning back, or they are in Mumbai trains and doing all these training.

0:17:9.690 --> 0:17:9.970  
Lavneet  
Good.

0:17:9.820 --> 0:17:21.410  
Gangadhar Heralgi  
During that time, the energy on the on the device is limited, so they cannot be waiting for the mobile to go off or battery gets drained.

0:17:21.420 --> 0:17:27.260  
Gangadhar Heralgi  
They are expecting the entire battery to drive at least 8 to 9 hours during that day, right?

0:17:25.970 --> 0:17:27.670  
Lavneet  
Correct, yes.

0:17:27.270 --> 0:17:31.0  
Gangadhar Heralgi  
So I do find a lot of usability in such scenarios.

0:17:36.600 --> 0:17:36.740  
Lavneet  
Yes.

0:17:31.10 --> 0:17:37.190  
Gangadhar Heralgi  
I described another scenario where our agents are always on the field they are traveling.

0:17:37.200 --> 0:17:42.870  
Gangadhar Heralgi  
They are meeting at least four or five U customers, illustrating them various products and onboarding them.

0:17:48.720 --> 0:17:49.20  
Lavneet  
You.

0:17:43.120 --> 0:17:53.350  
Gangadhar Heralgi  
So it takes quite a bit of time in bigger cities like Hyderabad, Mumbai, where people are not expected to come back to home and recharge their devices.

0:17:54.420 --> 0:17:54.620  
Lavneet  
If.

0:17:53.700 --> 0:18:0.440  
Gangadhar Heralgi  
So I do find quite a usability when it comes to devices like mobile phones and.

0:18:2.0 --> 0:18:2.260  
Gangadhar Heralgi  
The.

0:18:3.820 --> 0:18:4.260  
Lavneet  
Fabulous.

0:18:4.480 --> 0:18:6.940  
Gangadhar Heralgi  
In the tablets, right, so yeah.

0:18:8.270 --> 0:18:8.700  
Lavneet  
Thank you.

0:18:9.270 --> 0:18:10.130  
Lavneet  
So next question?

0:18:10.560 --> 0:18:11.120  
Lavneet  
Umm.

0:18:11.480 --> 0:18:13.660  
Lavneet  
So which of the following issues do you think?

0:18:13.670 --> 0:18:19.540  
Lavneet  
Could the paradigm phase, if it is followed in the in in your project?

0:18:19.550 --> 0:18:29.830  
Lavneet  
Meaning, if we want to apply or you want to apply this paradigm in the in your project, let's say current project or a couple of projects that you are are are you know want to apply it on.

0:18:30.40 --> 0:18:33.380  
Lavneet  
So which of these issues could be and issue?

0:18:33.390 --> 0:18:34.700  
Lavneet  
Or could be a hindrance.

0:18:35.190 --> 0:18:35.460  
Gangadhar Heralgi  
Umm.

0:18:34.710 --> 0:18:42.800  
Lavneet  
So first please, that's the UI of the application that of your project is too complex that it cannot move to server side.

0:18:42.860 --> 0:18:47.600  
Lavneet  
Could that be an issue where because it requires the view models to move to the server side?

0:18:48.210 --> 0:18:48.490  
Gangadhar Heralgi  
Umm.

0:18:49.140 --> 0:18:50.170  
Lavneet  
It is.

0:18:50.250 --> 0:18:50.640  
Lavneet  
You are.

0:18:50.650 --> 0:18:52.130  
Lavneet  
Your definition is too complex.

0:18:52.140 --> 0:18:54.60  
Lavneet  
That is why we can't apply this product.

0:18:54.70 --> 0:18:56.580  
Lavneet  
Is that could that could be the reason or.

0:18:56.210 --> 0:18:57.530  
Gangadhar Heralgi  
I I don't think so.

0:18:57.540 --> 0:19:2.180  
Gangadhar Heralgi  
You you like complexity may not be a blocker there.

0:19:2.430 --> 0:19:2.710  
Gangadhar Heralgi  
OK.

0:19:3.50 --> 0:19:3.330  
Lavneet  
Uh.

0:19:5.300 --> 0:19:5.430  
Lavneet  
Yeah.

0:19:3.670 --> 0:19:21.490  
Gangadhar Heralgi  
Umm so yeah but yeah, because when it comes to energy saving, I don't, I don't think that that can be a blocker in terms of uh, Ted adapting to a new model being followed as your article suggests, yeah.

0:19:21.390 --> 0:19:21.810  
Lavneet  
Thank you.

0:19:22.310 --> 0:19:31.270  
Lavneet  
So, second, collaboration issues between front end and back end teams because it will move more work likely to the server side team.

0:19:31.280 --> 0:19:33.320  
Lavneet  
So it could, it could.

0:19:33.330 --> 0:19:38.450  
Lavneet  
The collaboration between the front and back end team be an issue of for not applying this paradigm.

0:19:37.540 --> 0:19:40.710  
Gangadhar Heralgi  
Yes, yes, I do find that thing a challenging.

0:19:40.720 --> 0:19:47.390  
Gangadhar Heralgi  
Whenever we discuss these things, we mobile developers are hesitant to take up more work on their side.

0:19:48.60 --> 0:19:49.570  
Gangadhar Heralgi  
Ah, they would.

0:19:49.620 --> 0:19:54.990  
Gangadhar Heralgi  
They would ideally want to continue with whatever already existed.

0:19:55.830 --> 0:19:56.70  
Lavneet  
Correct.

0:19:55.320 --> 0:20:1.60  
Gangadhar Heralgi  
OK, they don't want to, uh, change the way things are at the same time.

0:20:1.110 --> 0:20:4.470  
Gangadhar Heralgi  
Him with back end developers, the EPA has always been working.

0:20:4.480 --> 0:20:6.330  
Gangadhar Heralgi  
They have to create new APA's or they have to.

0:20:7.880 --> 0:20:11.350  
Gangadhar Heralgi  
Maybe it's only for mobility, right?

0:20:11.900 --> 0:20:12.90  
Lavneet  
Yeah.

0:20:18.750 --> 0:20:19.60  
Lavneet  
OK.

0:20:11.420 --> 0:20:19.150  
Gangadhar Heralgi  
So some sort of reaction we can assume, or rather I can Support see that happening.

0:20:24.920 --> 0:20:25.80  
Lavneet  
Yeah.

0:20:19.260 --> 0:20:25.150  
Gangadhar Heralgi  
But having said that, thing being an enterprise, we can always tell them nothing doing.

0:20:25.160 --> 0:20:26.290  
Gangadhar Heralgi  
Just go ahead and do that.

0:20:26.300 --> 0:20:27.560  
Gangadhar Heralgi  
So that's a possibility here.

0:20:28.550 --> 0:20:28.890  
Lavneet  
OK.

0:20:29.210 --> 0:20:29.640  
Lavneet  
Thank you.

0:20:30.270 --> 0:20:41.0  
Lavneet  
Next option I mean next possibility that project is cannot implement this because this is a change and the project is on tight delivery while stones.

0:20:41.10 --> 0:20:42.140  
Lavneet  
So could that be the issue?

0:20:43.530 --> 0:20:48.680  
Gangadhar Heralgi  
That's almost always the case in most of the projects that we work for.

0:20:48.690 --> 0:20:59.640  
Gangadhar Heralgi  
Enterprise enterprises are very sales driven and there are always certain dates that they have in mind for their go to market challenge things and all.

0:21:9.30 --> 0:21:9.290  
Lavneet  
OK.

0:20:59.950 --> 0:21:13.970  
Gangadhar Heralgi  
So when we say that it needs to be properly designed at all in respective of, this has nothing to do with the this specific suggestion, but most of the time there is always a pressure to meet the dates and timelines.

0:21:14.210 --> 0:21:20.950  
Gangadhar Heralgi  
Can follow a certain design pattern or architectural pattern that we would like them to do.

0:21:21.910 --> 0:21:22.90  
Lavneet  
Of.

0:21:21.300 --> 0:21:25.100  
Gangadhar Heralgi  
So that challenge has always been there, yeah.

0:21:25.360 --> 0:21:25.620  
Lavneet  
Thanks.

0:21:26.440 --> 0:21:32.700  
Lavneet  
Our next option is that we can't apply this paradigm because it has a high learning curve which is too complex to learn.

0:21:35.180 --> 0:21:35.520  
Lavneet  
The.

0:21:34.310 --> 0:21:37.240  
Gangadhar Heralgi  
No, I I I don't think that is that's a challenge.

0:21:44.890 --> 0:21:45.150  
Lavneet  
OK.

0:21:37.890 --> 0:21:56.210  
Gangadhar Heralgi  
I I I I went through complete article I found it very very much relatable now very simply explained very simple terms that you have used to describe the pattern and lot many times it it is making a more.

0:22:1.340 --> 0:22:1.530  
Lavneet  
Of.

0:21:56.260 --> 0:22:4.40  
Gangadhar Heralgi  
I would say that sense for us to go and adopt this, I don't know why we have to go and hang around with that thing.

0:22:4.50 --> 0:22:9.270  
Gangadhar Heralgi  
So I don't think that is a, a a learning curve is a challenge there.

0:22:13.30 --> 0:22:13.350  
Lavneet  
Thank you.

0:22:9.620 --> 0:22:13.900  
Gangadhar Heralgi  
It's very simple, so anyone can pick up and learn, yeah.

0:22:14.220 --> 0:22:22.470  
Lavneet  
Uh, now I have three more questions which are kind of where options we have is very likely, somewhat likely unlikely, and not at all.

0:22:22.680 --> 0:22:23.90  
Lavneet  
OK.

0:22:22.910 --> 0:22:23.210  
Gangadhar Heralgi  
Umm.

0:22:23.420 --> 0:22:43.170  
Lavneet  
So the first question is this, RMB having RMB RBM approach could be applied in the web applications gradually, meaning we can if the there are a lot of pages we can apply in one page at a time, maybe the next page that is being developed, we can use that as if it's it can be done in an incremental approach.

0:22:43.650 --> 0:22:43.900  
Gangadhar Heralgi  
Mm-hmm.

0:22:43.540 --> 0:22:50.600  
Lavneet  
So how likely it is that your team can adopt RMB RBM using this approach, then agreements approach.

0:22:49.750 --> 0:22:50.840  
Gangadhar Heralgi  
I think very likely.

0:23:1.860 --> 0:23:2.100  
Lavneet  
OK.

0:22:50.850 --> 0:23:6.420  
Gangadhar Heralgi  
Yeah, because it's stepwise approach always is welcome in any enterprise to take it one at a time and go and implement a firewise approach because that will ensure that all the things are not disturbed together.

0:23:7.280 --> 0:23:7.600  
Lavneet  
Yes.

0:23:6.810 --> 0:23:15.400  
Gangadhar Heralgi  
We are able to continue and maintain the functionality at the same time provide energy efficient application to the end user.

0:23:15.710 --> 0:23:16.970  
Gangadhar Heralgi  
That's the right approach I would say.

0:23:18.10 --> 0:23:18.480  
Lavneet  
OK.

0:23:18.660 --> 0:23:19.80  
Lavneet  
Thank you.

0:23:19.580 --> 0:23:29.590  
Lavneet  
Next question, how likely are you to discuss the this paradigm in your organization or the team to explore its applicability very likely.

0:23:28.950 --> 0:23:31.860  
Gangadhar Heralgi  
In fact, yeah, in fact very likely right.

0:23:31.870 --> 0:23:46.320  
Gangadhar Heralgi  
I have already shared this with all my architects teams and have been asking them wherever it is possible I we are working on a super app that has existing API's built for desktop.

0:23:46.960 --> 0:23:47.120  
Lavneet  
Yeah.

0:23:46.470 --> 0:23:54.520  
Gangadhar Heralgi  
So I'm actually pushing our team to go and make them lightweight, provide the data as required only using this pattern.

0:23:55.450 --> 0:23:55.690  
Lavneet  
OK.

0:23:54.990 --> 0:24:1.0  
Gangadhar Heralgi  
OK, so I'm I'm I'm actually proponent of of this pattern.

0:24:1.960 --> 0:24:2.710  
Lavneet  
Uh, great.

0:24:3.50 --> 0:24:3.730  
Lavneet  
Thank you so much.

0:24:3.510 --> 0:24:3.730  
Gangadhar Heralgi  
Then.

0:24:4.710 --> 0:24:6.980  
Lavneet  
Uh, next question again.

0:24:7.30 --> 0:24:8.480  
Lavneet  
Similar options.

0:24:8.720 --> 0:24:15.900  
Lavneet  
So how likely are you to explore further this paradigm in your organization by recommending a pilot project or internship project?

0:24:23.930 --> 0:24:24.140  
Gangadhar Heralgi  
Umm.

0:24:15.910 --> 0:24:29.900  
Lavneet  
So for example, if it is too complex to implement on an existing project or ongoing project because of any reason, can you would you recommend doing a POC or an internship project you followed?

0:24:28.380 --> 0:24:31.410  
Gangadhar Heralgi  
Yeah, I think I answered that in my previous question.

0:24:30.870 --> 0:24:32.520  
Lavneet  
Yes, yes, correct.

0:24:31.420 --> 0:24:33.810  
Gangadhar Heralgi  
So so I am pushing for that thing.

0:24:34.660 --> 0:24:34.940  
Lavneet  
OK.

0:24:34.360 --> 0:24:40.550  
Gangadhar Heralgi  
I'm sure some people are having open minds towards this new pattern and they will explore.

0:24:40.560 --> 0:24:43.510  
Gangadhar Heralgi  
I'm also we'll see, wherever this is applicable.

0:24:43.520 --> 0:24:46.240  
Gangadhar Heralgi  
Yes, the simple answer to your question is yes.

0:24:47.590 --> 0:24:48.80  
Lavneet  
Thank you.

0:24:49.70 --> 0:24:52.250  
Lavneet  
Next two questions are more like opinion questions.

0:24:52.260 --> 0:24:54.0  
Lavneet  
You're like elaborate.

0:24:54.10 --> 0:24:56.740  
Lavneet  
You can elaborate your you can share your thoughts on that.

0:24:56.750 --> 0:25:3.580  
Lavneet  
So first one is what is your opinion on the applicability or potential of real world usage of this paradigm?

0:25:5.200 --> 0:25:5.590  
Gangadhar Heralgi  
No.

0:25:13.410 --> 0:25:13.790  
Lavneet  
Connected.

0:25:5.640 --> 0:25:14.400  
Gangadhar Heralgi  
Uh, as I described, right, so there are there are too many scenarios where we can use this pattern and see the benefits.

0:25:15.40 --> 0:25:20.670  
Gangadhar Heralgi  
We can move a lot of crossing the server side computing server side's today are being on cloud.

0:25:20.760 --> 0:25:24.870  
Gangadhar Heralgi  
It has given us scale and compute power at their side right?

0:25:24.970 --> 0:25:25.110  
Lavneet  
Yes.

0:25:24.970 --> 0:25:33.270  
Gangadhar Heralgi  
So if I can move all my CPU power consumption to the server side, I can minimize the amount of data that is being sent to the client side.

0:25:48.300 --> 0:25:48.580  
Lavneet  
OK.

0:25:33.280 --> 0:25:56.70  
Gangadhar Heralgi  
So client if please getting more battery power for the watches that they are wearing or the devices that they are carrying it, it makes more realistic, more real world friendly, more user friendly, more a users would be happy because when they are device lasts long they don't have to keep on recharging.

0:25:56.480 --> 0:26:0.540  
Gangadhar Heralgi  
That's that's something that users should love to, so I feel it very practical.

0:26:2.230 --> 0:26:2.570  
Lavneet  
Thank you.

0:26:2.310 --> 0:26:3.640  
Gangadhar Heralgi  
Hope that answers your questions.

0:26:4.260 --> 0:26:5.80  
Lavneet  
Yes, it does.

0:26:5.90 --> 0:26:5.950  
Lavneet  
Yes, thank you.

0:26:6.340 --> 0:26:16.620  
Lavneet  
So the last question is what are the constraints that you see which could hinder this applying this paradigm in the source code of your current project or current projects?

0:26:16.980 --> 0:26:17.670  
Gangadhar Heralgi  
Hmm.

0:26:17.710 --> 0:26:23.210  
Gangadhar Heralgi  
See when when I look at any new pattern, is generally see that the big.

0:26:26.960 --> 0:26:27.350  
Lavneet  
Umm.

0:26:25.250 --> 0:26:29.300  
Gangadhar Heralgi  
Industries are big 5 what we call in the software industry.

0:26:29.310 --> 0:26:33.320  
Gangadhar Heralgi  
Like Microsoft, they came up with this first time the MVC pattern, right?

0:26:33.880 --> 0:26:34.70  
Lavneet  
OK.

0:26:33.330 --> 0:26:35.840  
Gangadhar Heralgi  
So everyone started following the MVC pattern.

0:26:36.150 --> 0:26:54.870  
Gangadhar Heralgi  
Then MVVM came so there has been a journey when someone like that picks up, sees this thing and pushes through or someone like Martin Fowler or other influencers, large architects who see and take this pattern and influence the work.

0:26:59.30 --> 0:26:59.290  
Lavneet  
OK.

0:26:55.580 --> 0:27:3.770  
Gangadhar Heralgi  
Adoption would be exponential, so that's that's what I I see until that time it it's it's.

0:27:3.780 --> 0:27:7.170  
Gangadhar Heralgi  
I would say that research is always ahead, right.

0:27:7.760 --> 0:27:8.90  
Lavneet  
Umm.

0:27:7.180 --> 0:27:13.810  
Gangadhar Heralgi  
There have been a research about pooling of our resource pooling and all which exist since long time.

0:27:13.820 --> 0:27:24.740  
Gangadhar Heralgi  
Unless Microsoft of the world came up and made it a configurable entity, people were not using the polling concepts so similar to that thing.

0:27:24.750 --> 0:27:28.450  
Gangadhar Heralgi  
This article is research and it's way ahead of time.

0:27:28.940 --> 0:27:38.640  
Gangadhar Heralgi  
I would say that when people start seeing this more and start seeing through influencer networks, it would become more adaptable, right?

0:27:38.530 --> 0:27:40.570  
Lavneet  
OK, great.

0:27:41.180 --> 0:27:42.130  
Lavneet  
Thank you so much.

0:27:39.780 --> 0:27:42.440  
Gangadhar Heralgi  
Yeah, hope that answers, yeah.

0:27:42.520 --> 0:27:45.530  
Lavneet  
Yes, yes, yes, thank you so much for sharing your thoughts, sweetie.

0:27:46.170 --> 0:27:46.630  
Gangadhar Heralgi  
Thank you.

0:27:45.920 --> 0:28:9.870  
Lavneet  
It has been really valuable contribution and we we will do our further research, take it forward based on the feedbacks from people like you who are very experienced in the industry and you know and we will come back to you solicit your cooperation further and you know for the benefit of this planet we can save some energy, burn some less carbon.

0:28:11.570 --> 0:28:12.80  
Gangadhar Heralgi  
Yeah.

0:28:10.760 --> 0:28:13.320  
Lavneet  
So thank you for your advice.

0:28:12.270 --> 0:28:15.240  
Gangadhar Heralgi  
Thank you, love net and my best wishes for your research.

0:28:15.250 --> 0:28:16.790  
Gangadhar Heralgi  
Please continue on doing great things.

0:28:17.990 --> 0:28:18.300  
Gangadhar Heralgi  
OK.

0:28:17.730 --> 0:28:18.440  
Lavneet  
Thank you.

0:28:18.510 --> 0:28:18.940  
Lavneet  
Bye.

0:28:19.50 --> 0:28:19.370  
Lavneet  
Thank you.

0:28:18.590 --> 0:28:19.440  
Gangadhar Heralgi  
Thank you. Bye.

0:28:20.580 --> 0:28:21.0  
Lavneet  
Thank you.