

pearl

SAP CP MOBILE SERVICES

HOW TO MAKE SAP MOBILE

Agenda

- Short intro
- iOS SDK & Fiori design
- SCPms arcitechture
- Selected SCPms features

Apple | SAP Partnership

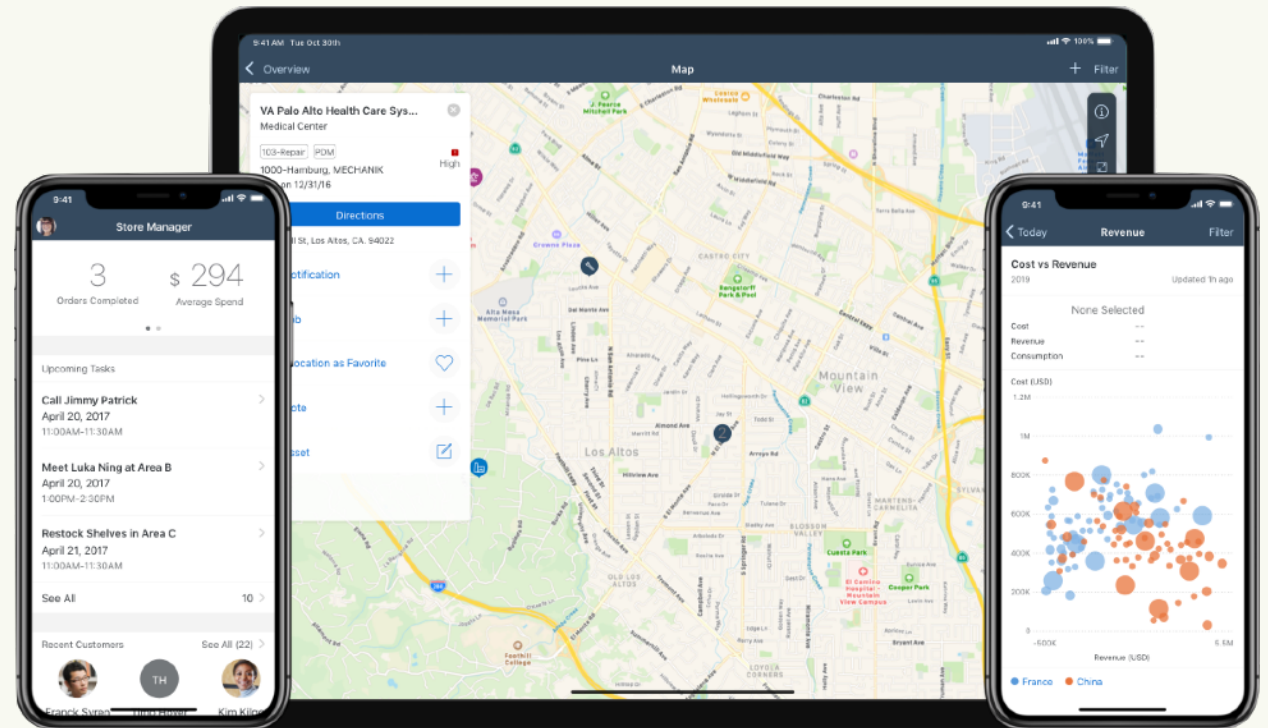
Apple & SAP entered in 2016 into a partnership where SAP made the Fiori design language available to iOS developers together with a framework for securely communicating with SAP systems



IOS SDK & FIORI DESIGN

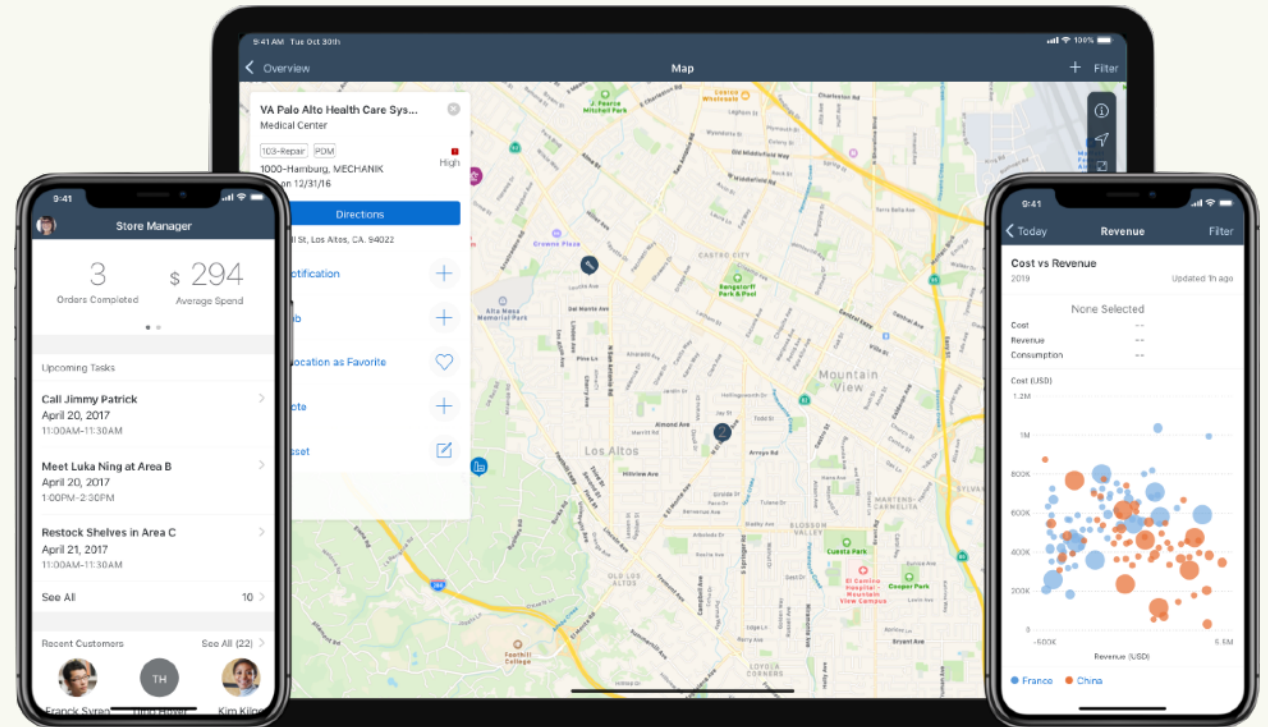


IOS SDK



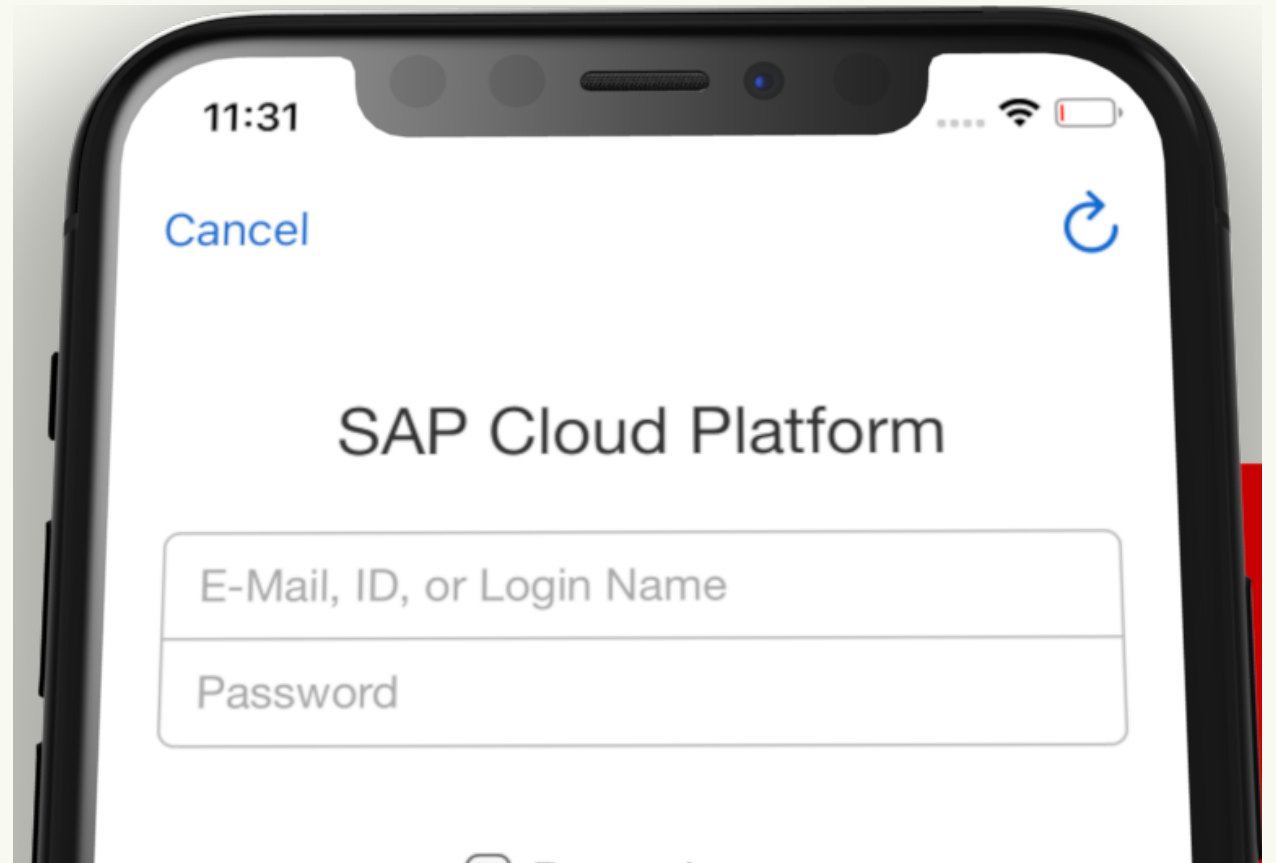
IOS SDK

- Written in Swift



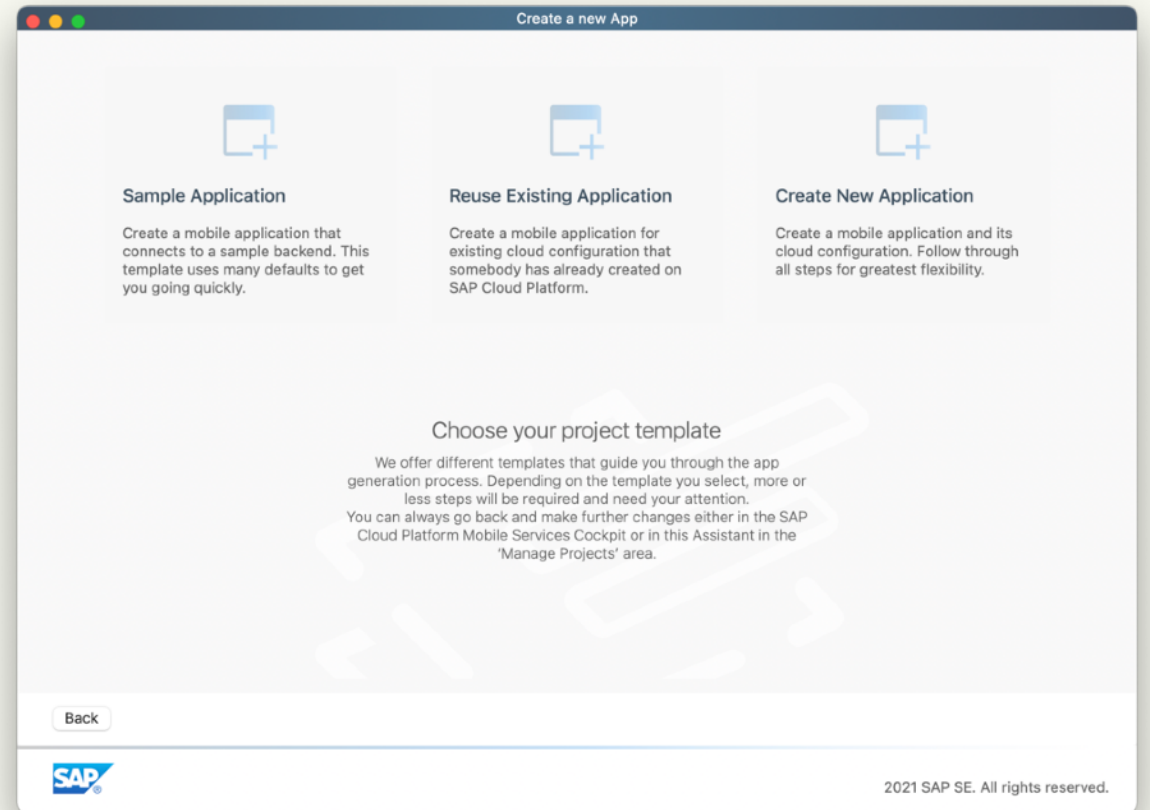
IOS SDK

- Written in Swift
- Easy user onboarding



IOS SDK

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- Assistant app for mac for app-generation



IOS SDK

- Written in Swift
- Easy user onboarding
- Assistant app for mac for app-generation
- Proxy class generation from Odata sources

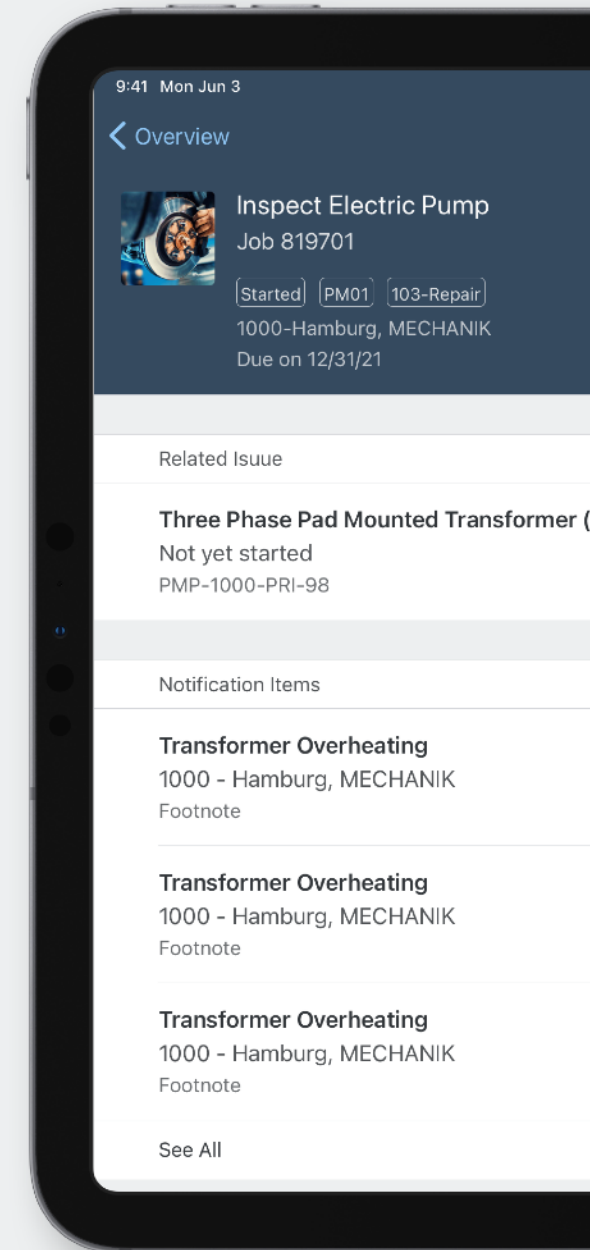
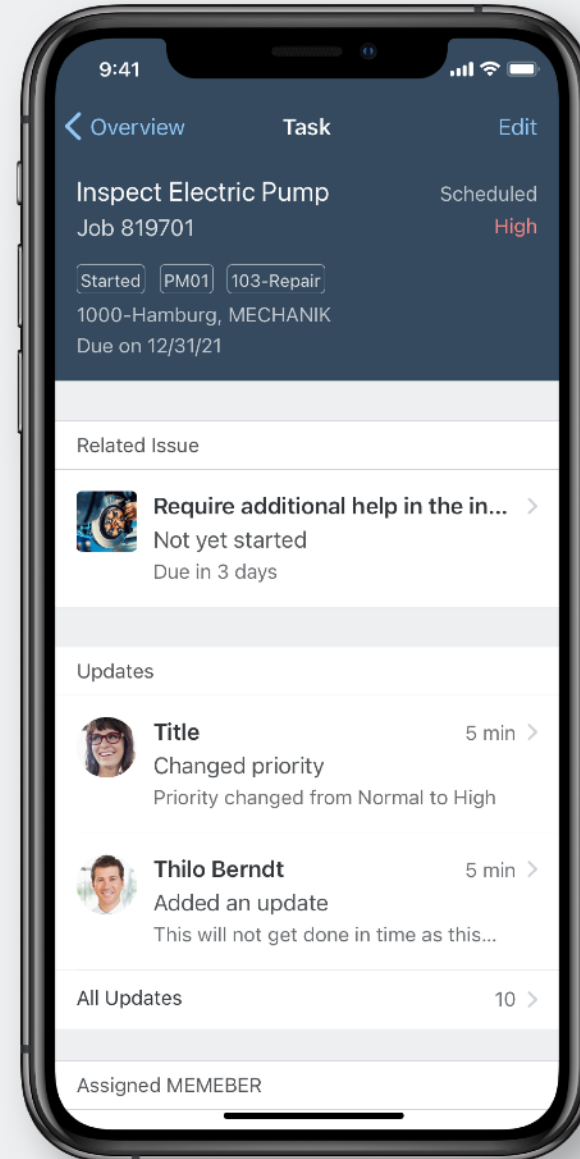
```
func buildItems(for receipt: SAPOData.GuidValue) -> [SAPItem] {
    var items = [SAPItem]()

    for item in Cart.shared.order.items {
        let receiptItem = SAPItem(withDefaults: false)
        receiptItem.cartID = receipt
        receiptItem.cartItemID = item.id
        receiptItem.itemType = item.type.SAPItemCategory
        receiptItem.product = item.product.id
        receiptItem.productGroup = item.product.group
        receiptItem.title = item.product.title
        receiptItem.quantity = BigDecimal(item.quantity)
        receiptItem.store = item.store
        receiptItem.grossPrice = BigDecimal(item.actualPrice)
        receiptItem.currency = commonData.config.currency
        items.append(receiptItem)
    }
    return items
}
```

FIORI DESIGN

Large Fiori design library with components and patterns for most use-cases

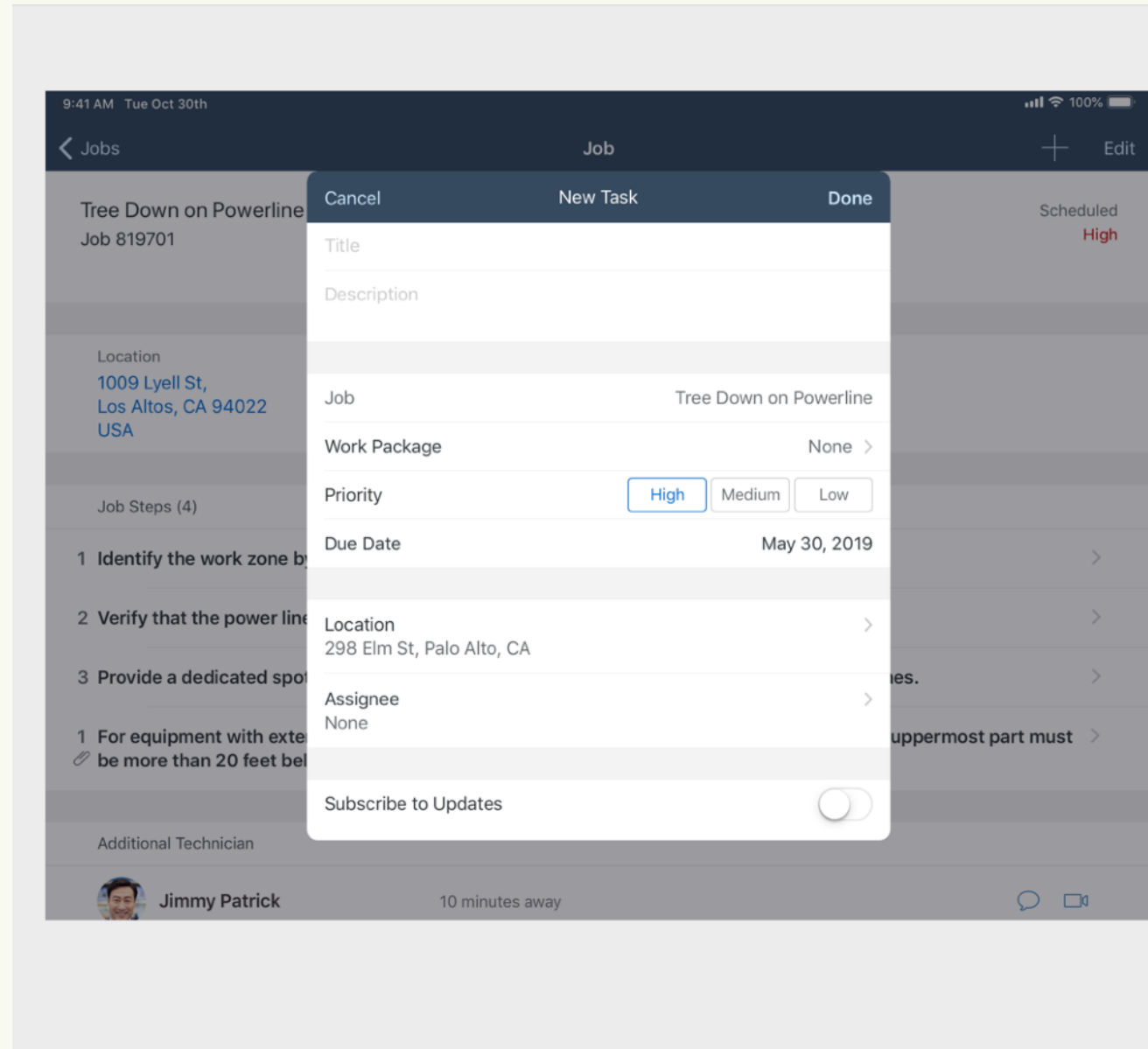
- Headers, tags, cells
- Create & Edit
- KPIs
- Interactive charts
- Banners and feedback
- Timeline
- MapView
- + + +



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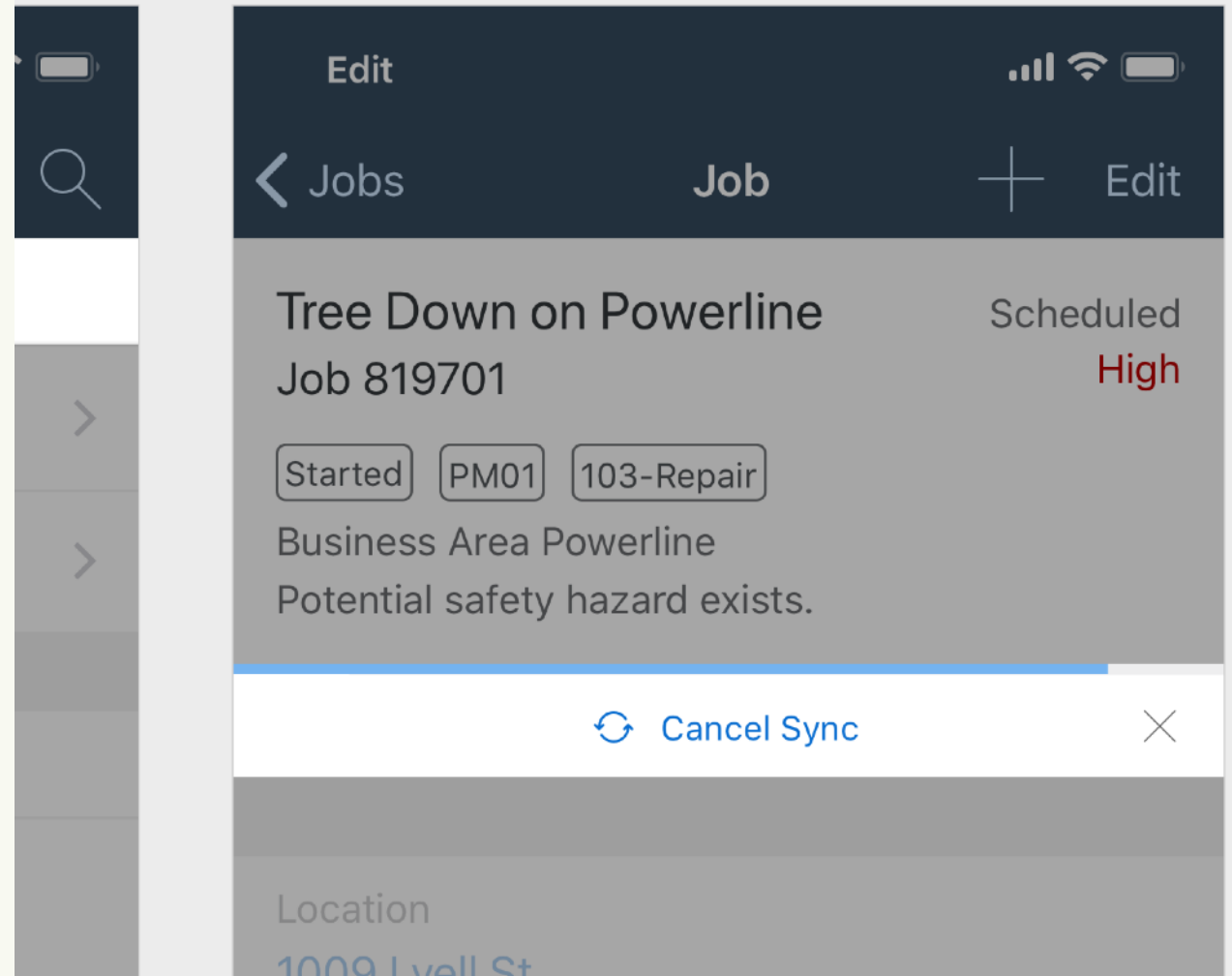
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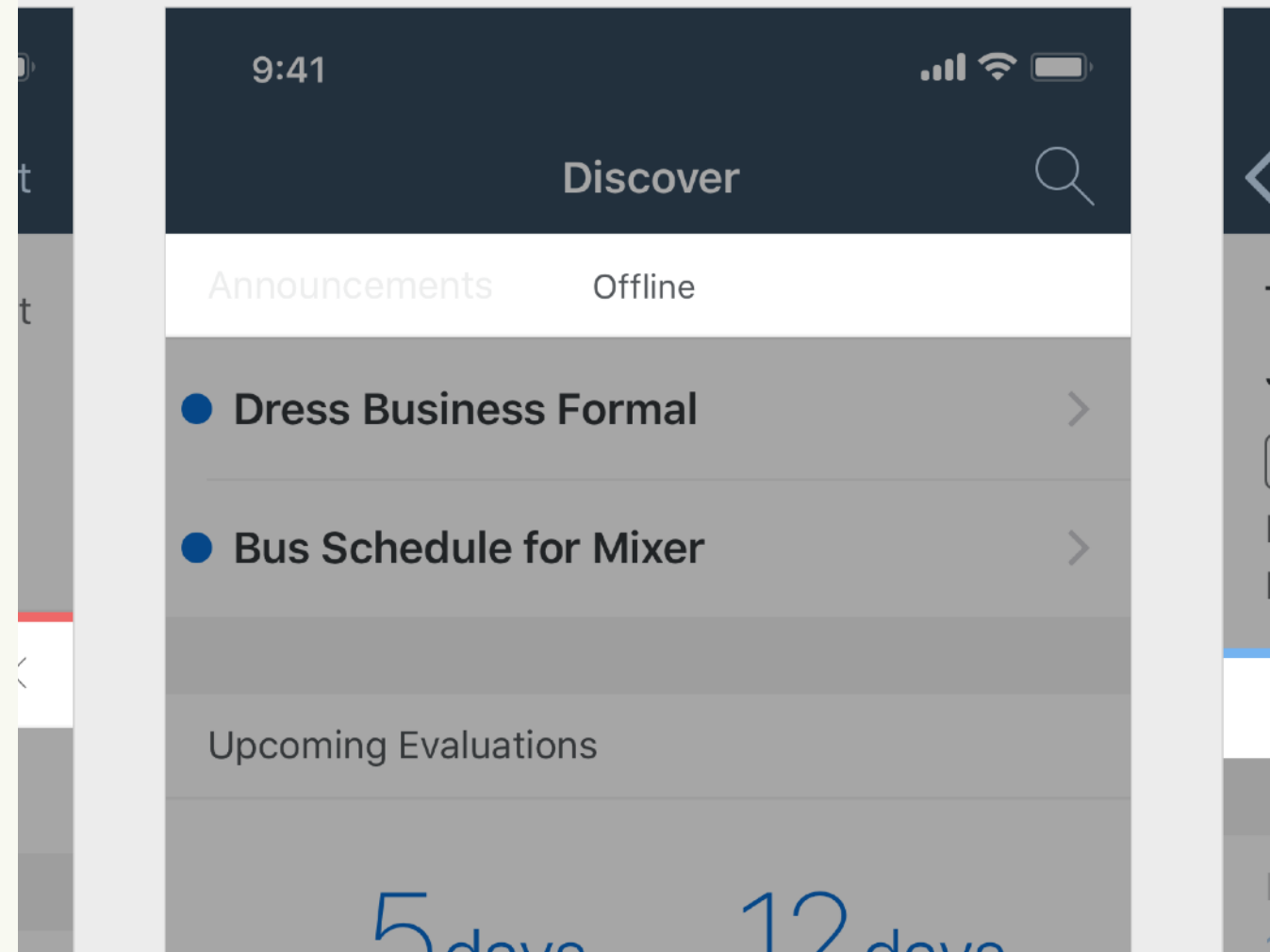


Sync Banner

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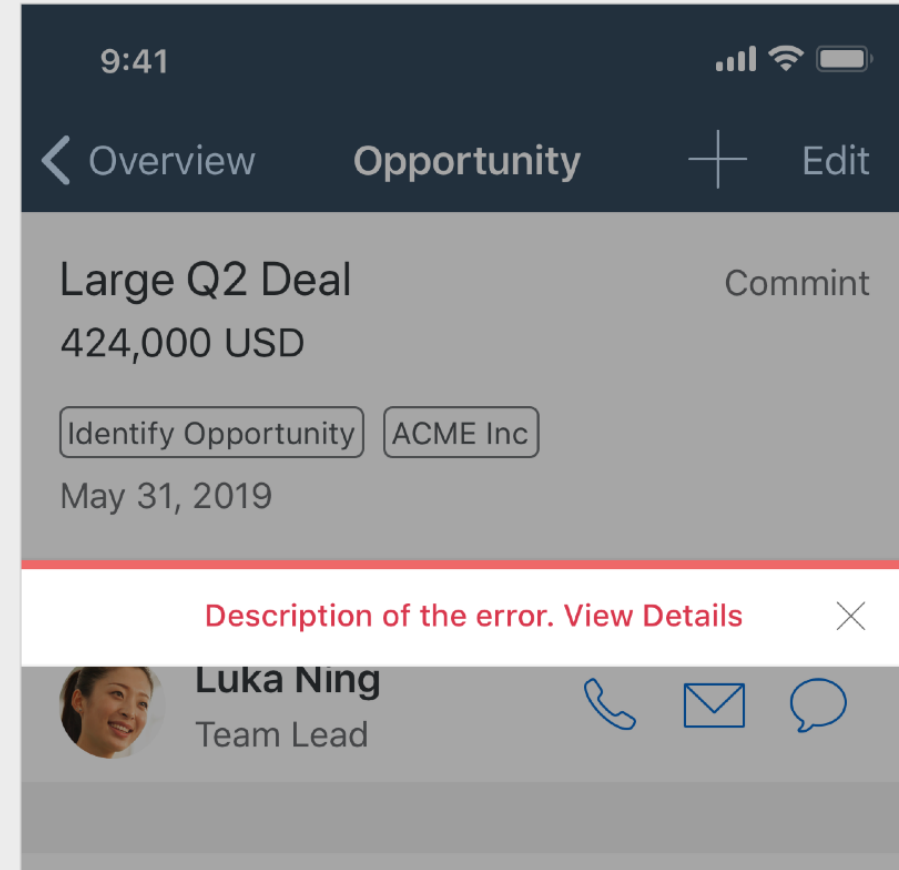


Offline Banner

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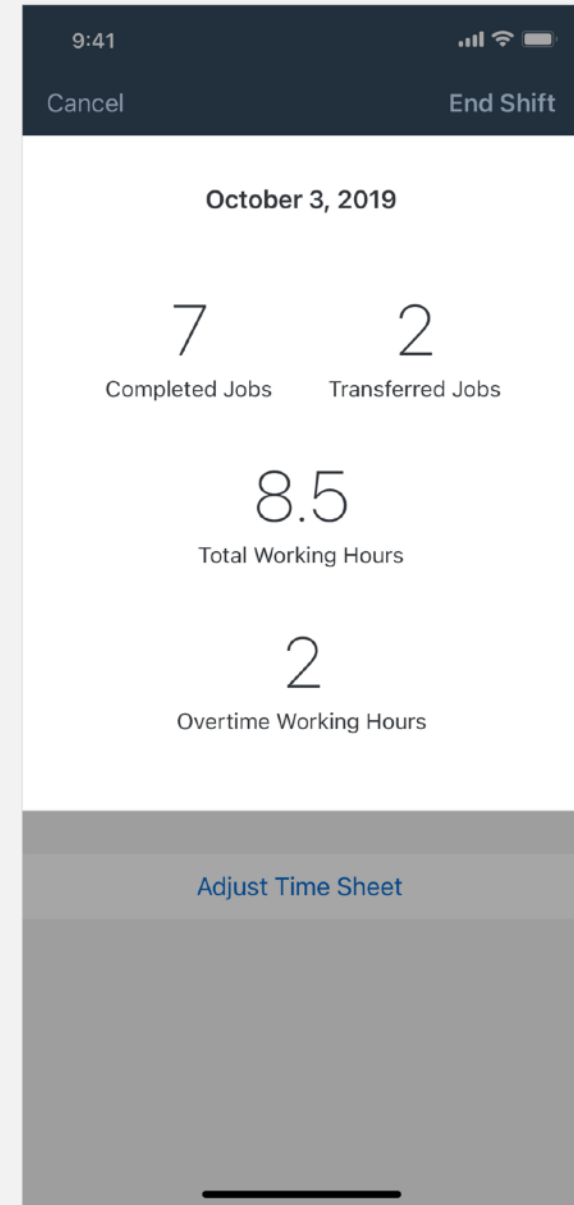
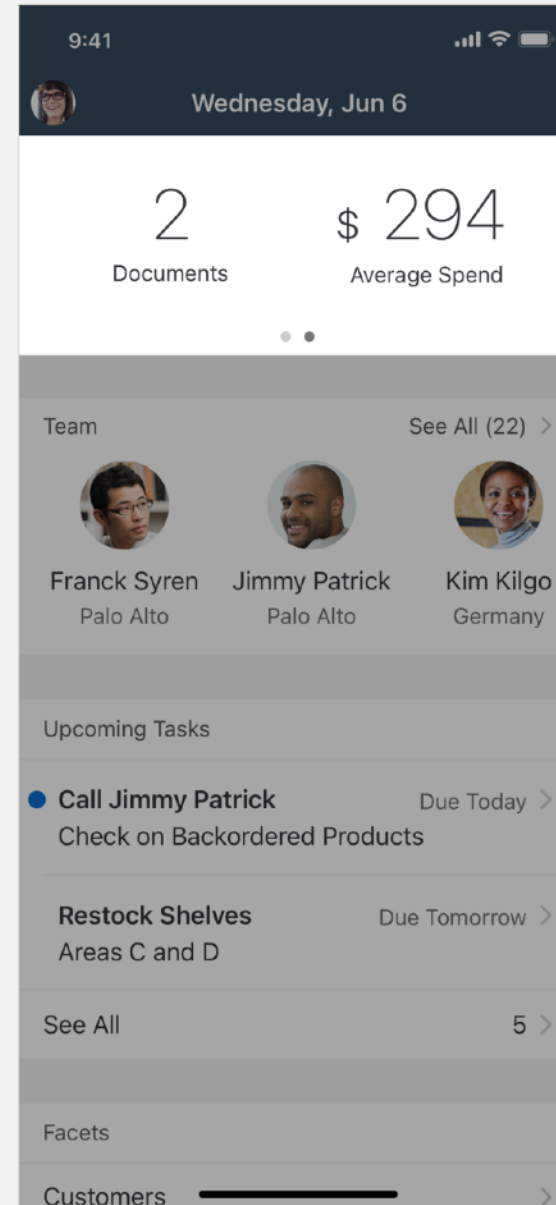
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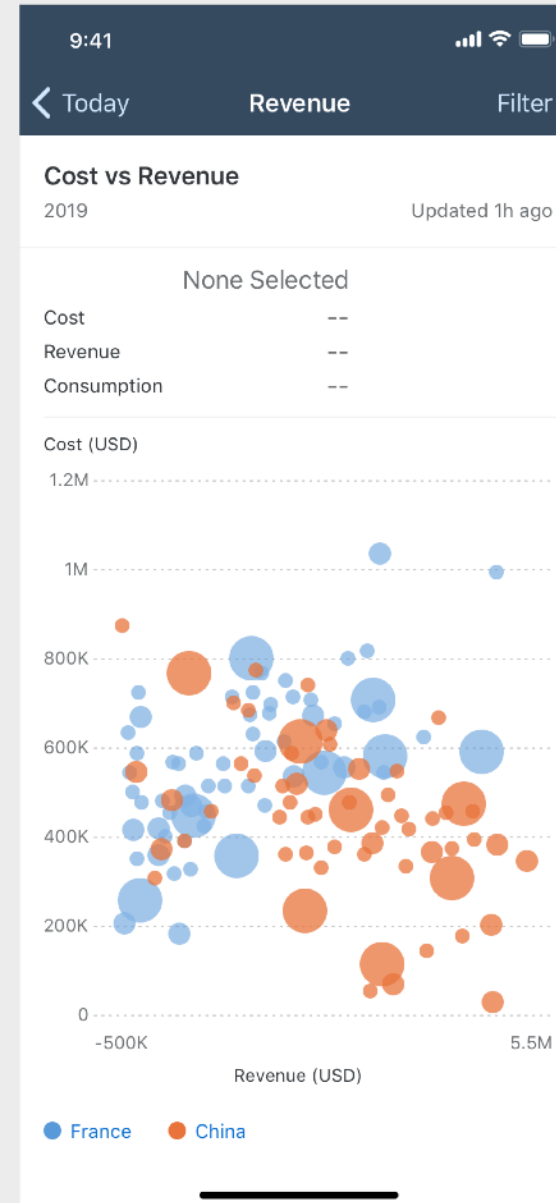
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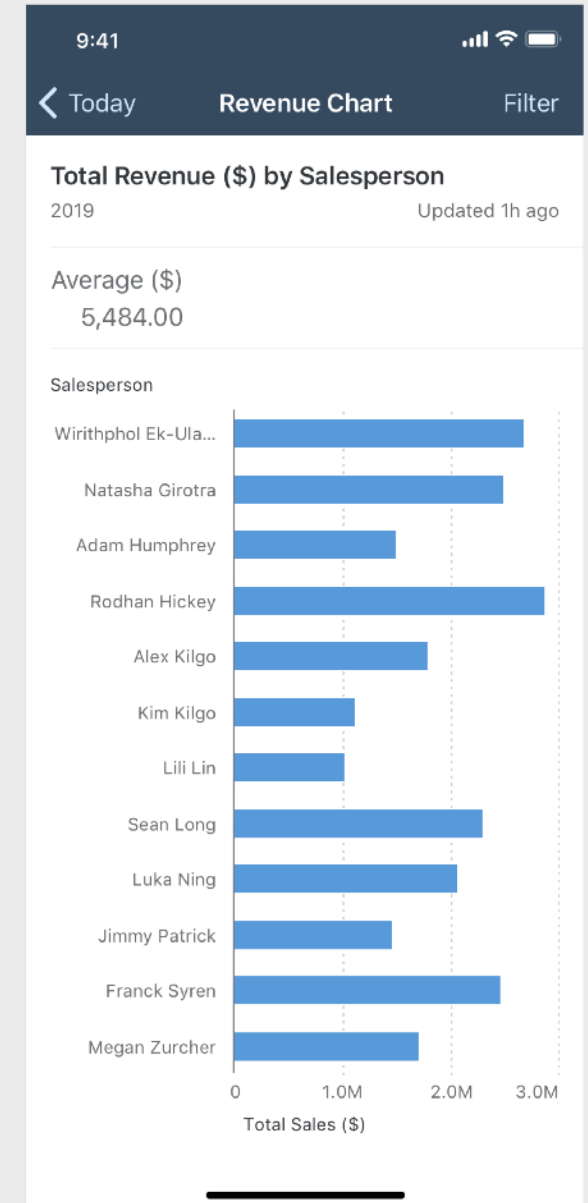
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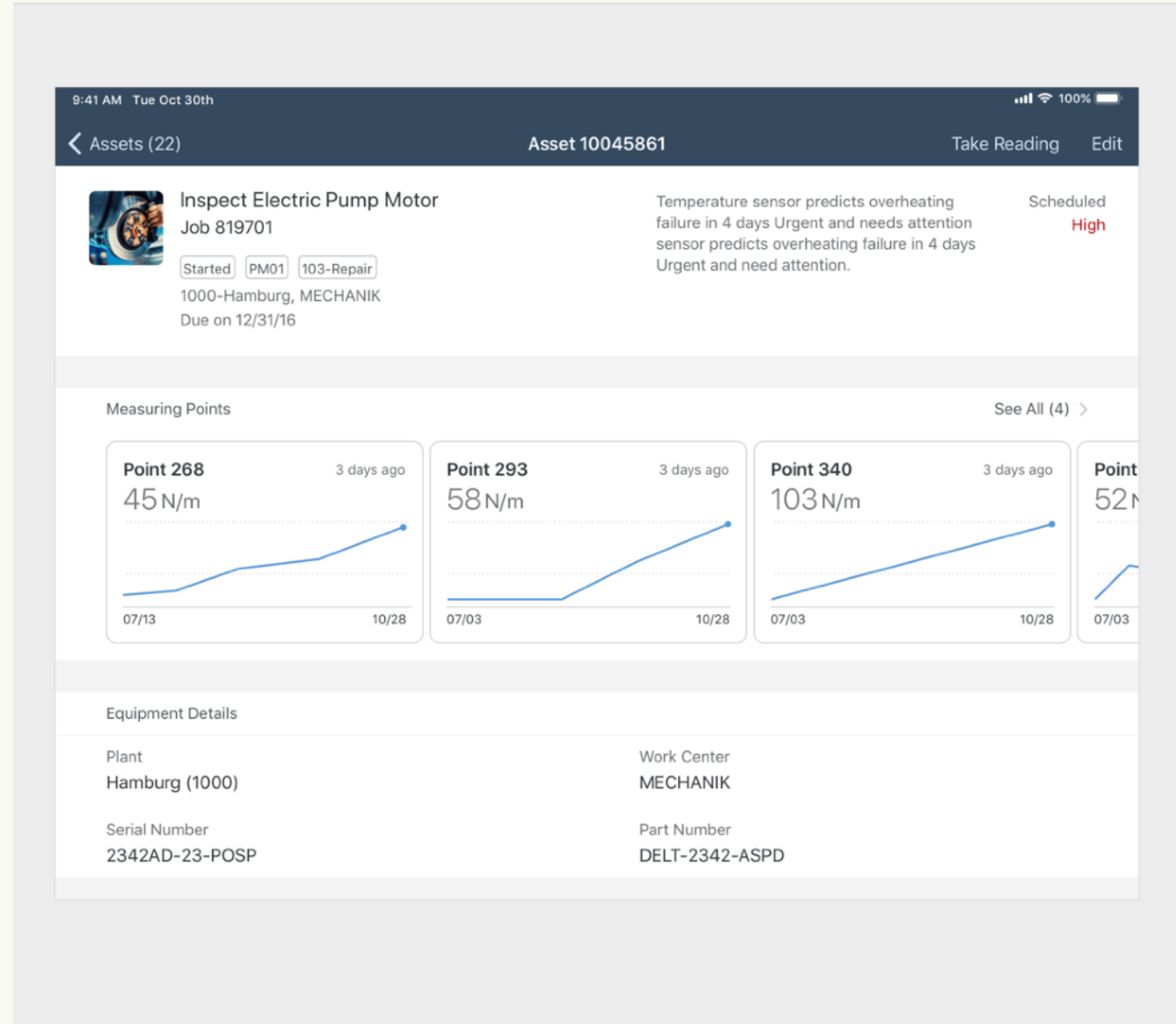
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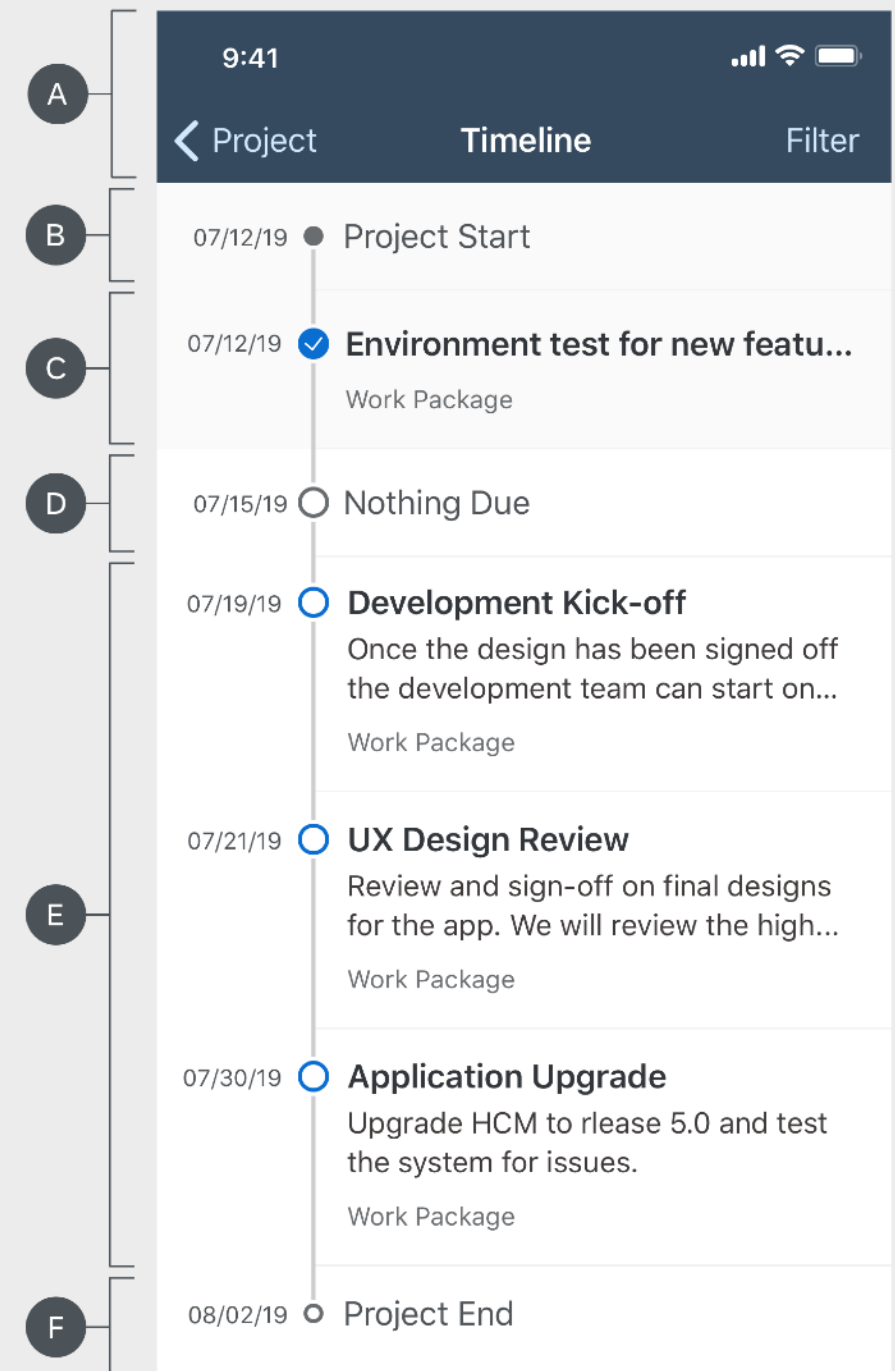
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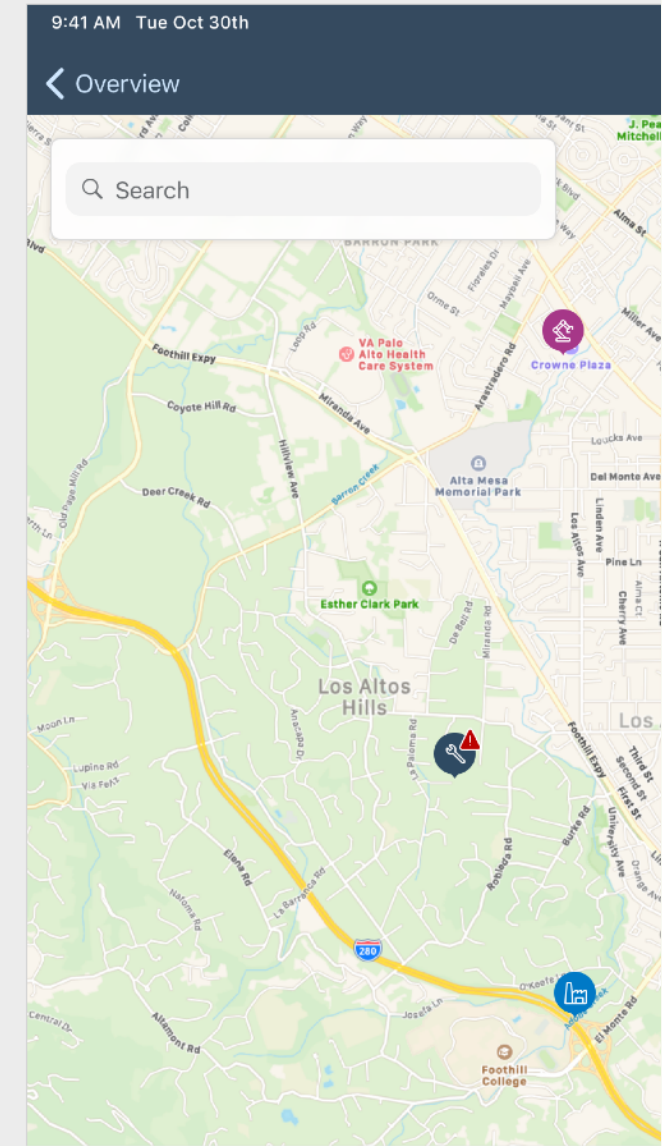
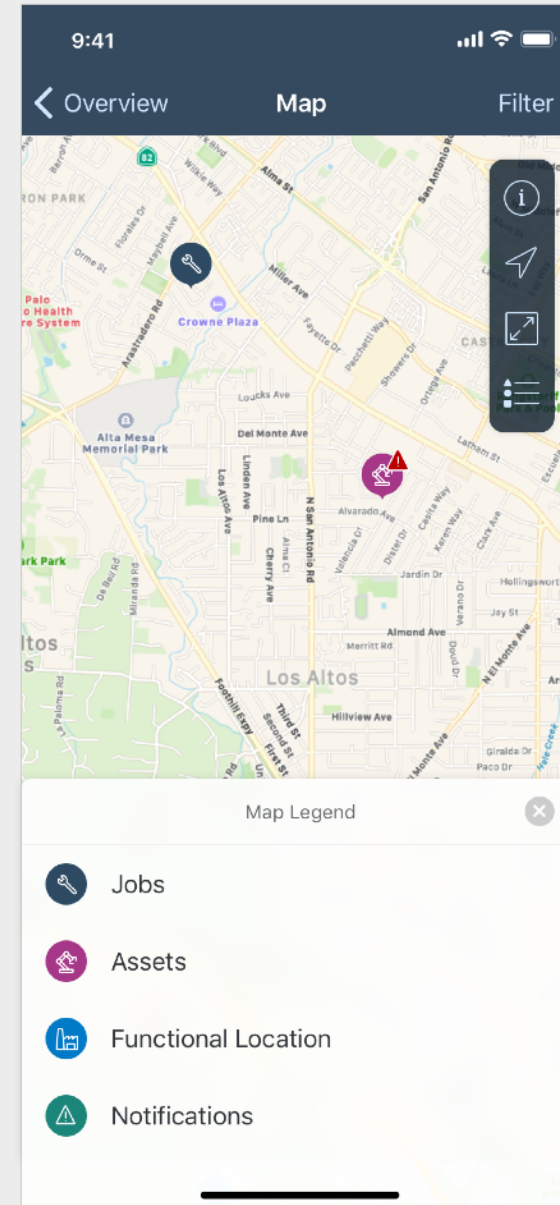
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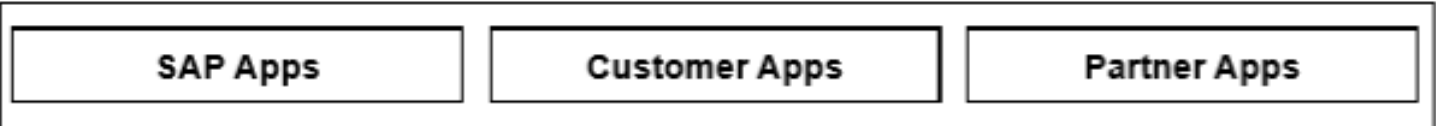
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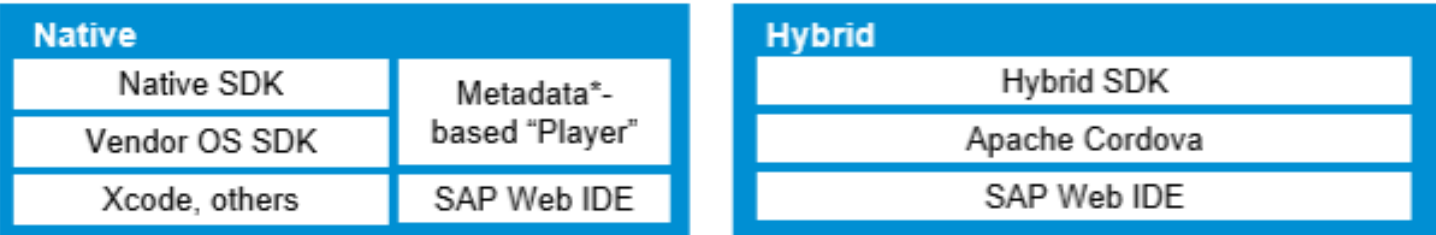
SCPms ARCHITECTURE



Apps



SDK and Frontend Tools



Mobile Services



Cloud Platform Services



Back End Systems



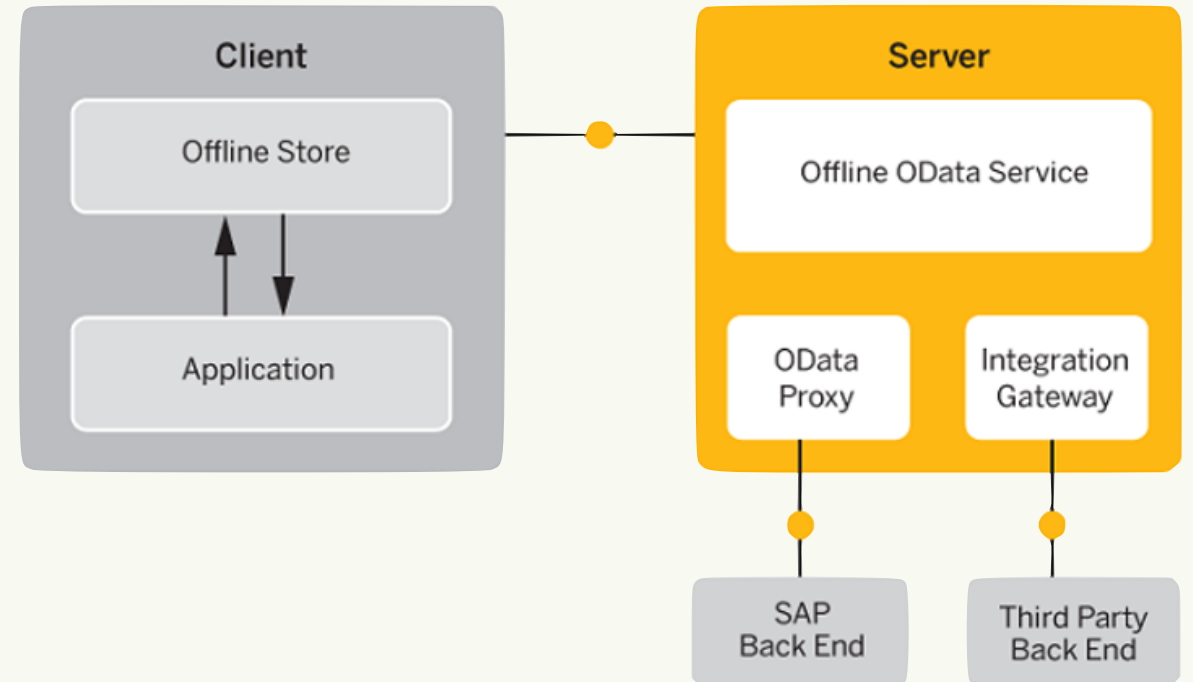
Image Credit - SAP (TechEd - DX110)

SCPms SELECTED FEATURES



OFFLINE

- An App can have both online and offline data objects
- Local DB is created after initial onboarding
- All CRUD operations are done against local datastore
- Manual og automatic synchronisation



DELTA TRACKING

- Refresh interval
- Lifetime
- Shared data

Edit Offline Configuration					
Defining Requests					+
Name	Refresh Interval (min)	Delta Tracking	Token Lifetime (min)	Share Data	Action
Customers	10	Auto	72000	☒	
ProductGroupSet	720	Auto	72000	☒	
Stocks	3	Auto	72000	☒	
Stores	720	Auto	72000	☒	

ANALYTICS

- Powerful SAP Analytics Cloud engine
- Lot of default reports within categories; session, demographics and behaviour
- Log your own events with associated data and analyse in SCPms

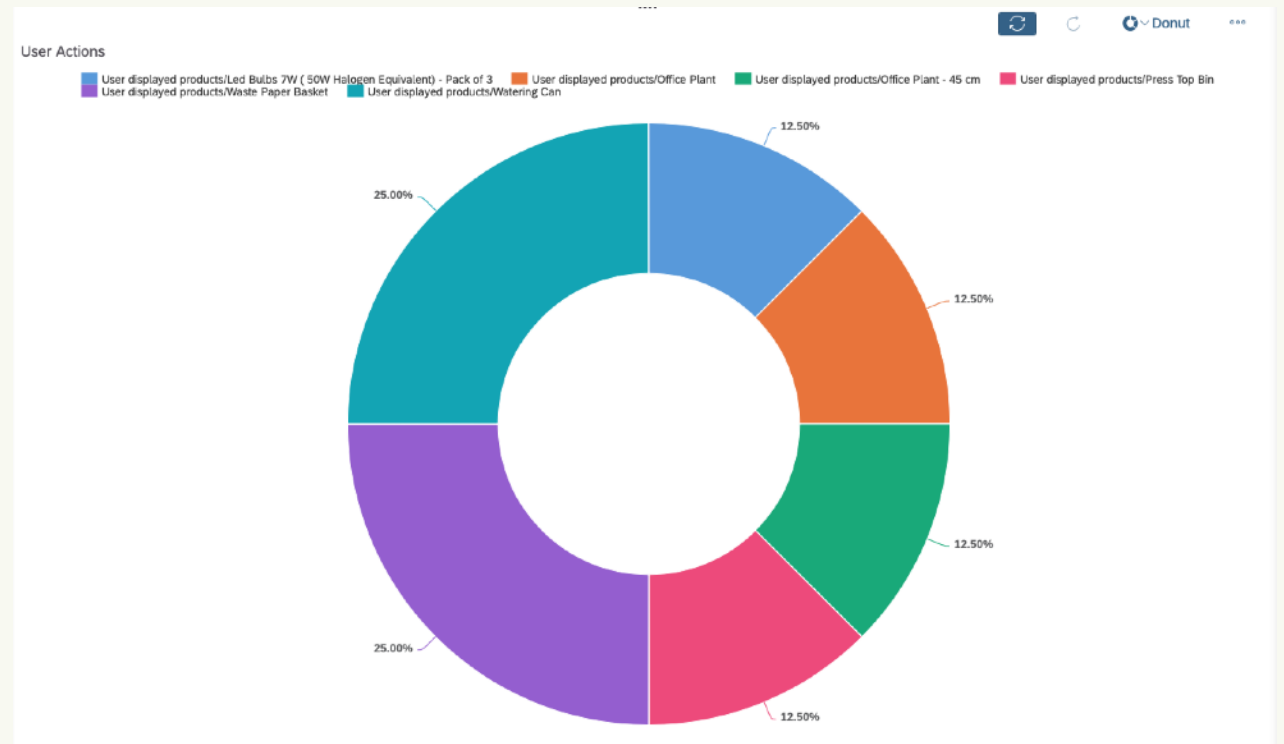
ANALYTICS

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```
SAPcpmsUsage.logBehaviorEvent(behaviorEvent: .userInteraction,  
viewIdentifier: "Products Screen", action:"User displayed  
products", value:  
self.entities[self.tableView.indexPathForSelectedRow!.row].name)
```

ANALYTICS

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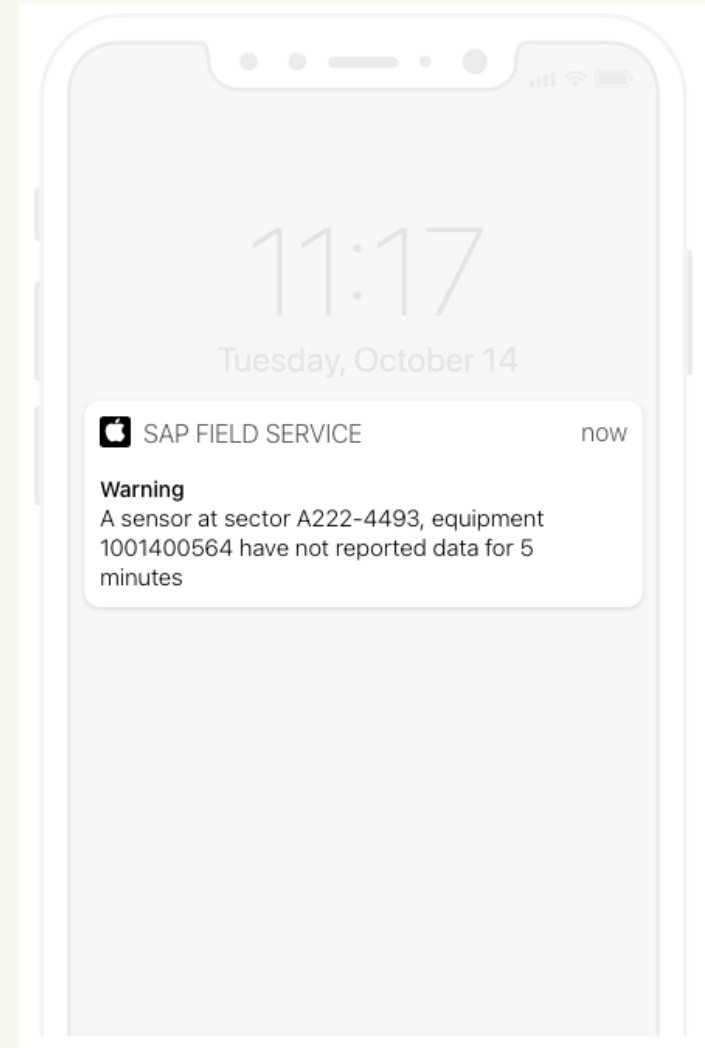


PUSH

- Foreground or background
- App-2-App or SAP-2-App

PUSH

- Foreground or background
- App-2-App or SAP-2-App



LOGGING

- Simple logger added in code
- Logs can be turn on per app, log level and user

```
logger.error("ViewDidAppear without loading any products")
```

2021-03-23 19:23:37



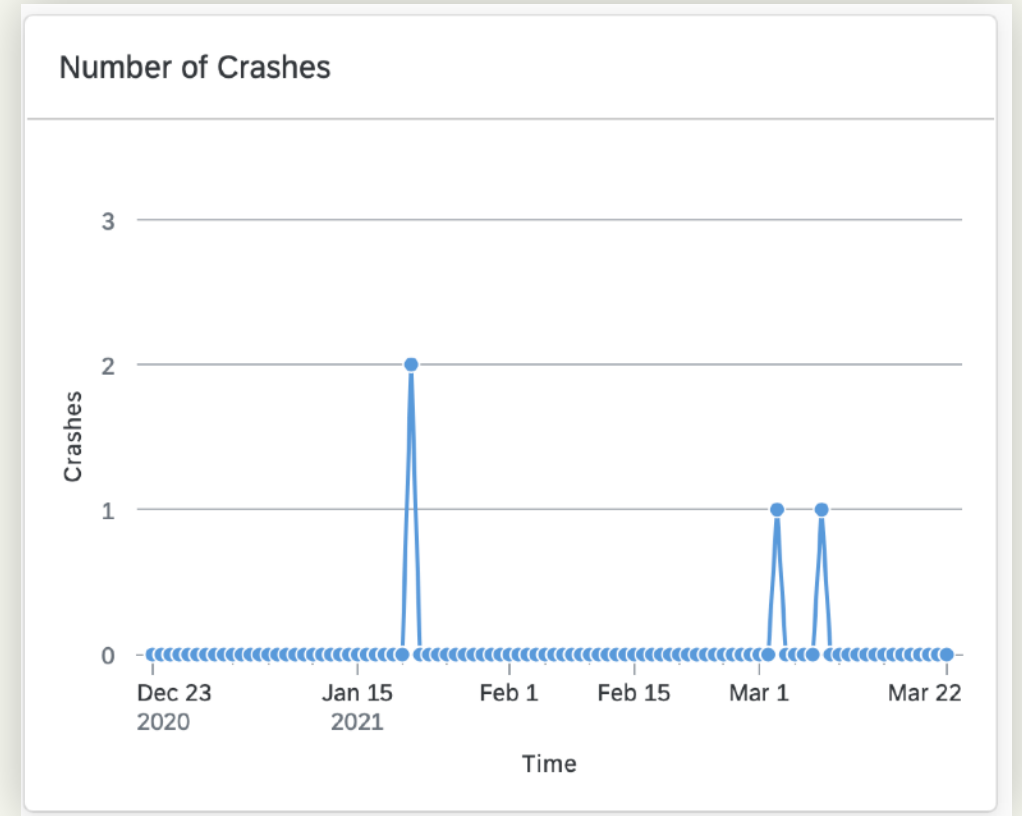
Failed! restore(onboardingID: 372030E3-72DB-4636-8FB0-7FBF9785E563) - Error Log: Passcode reset!

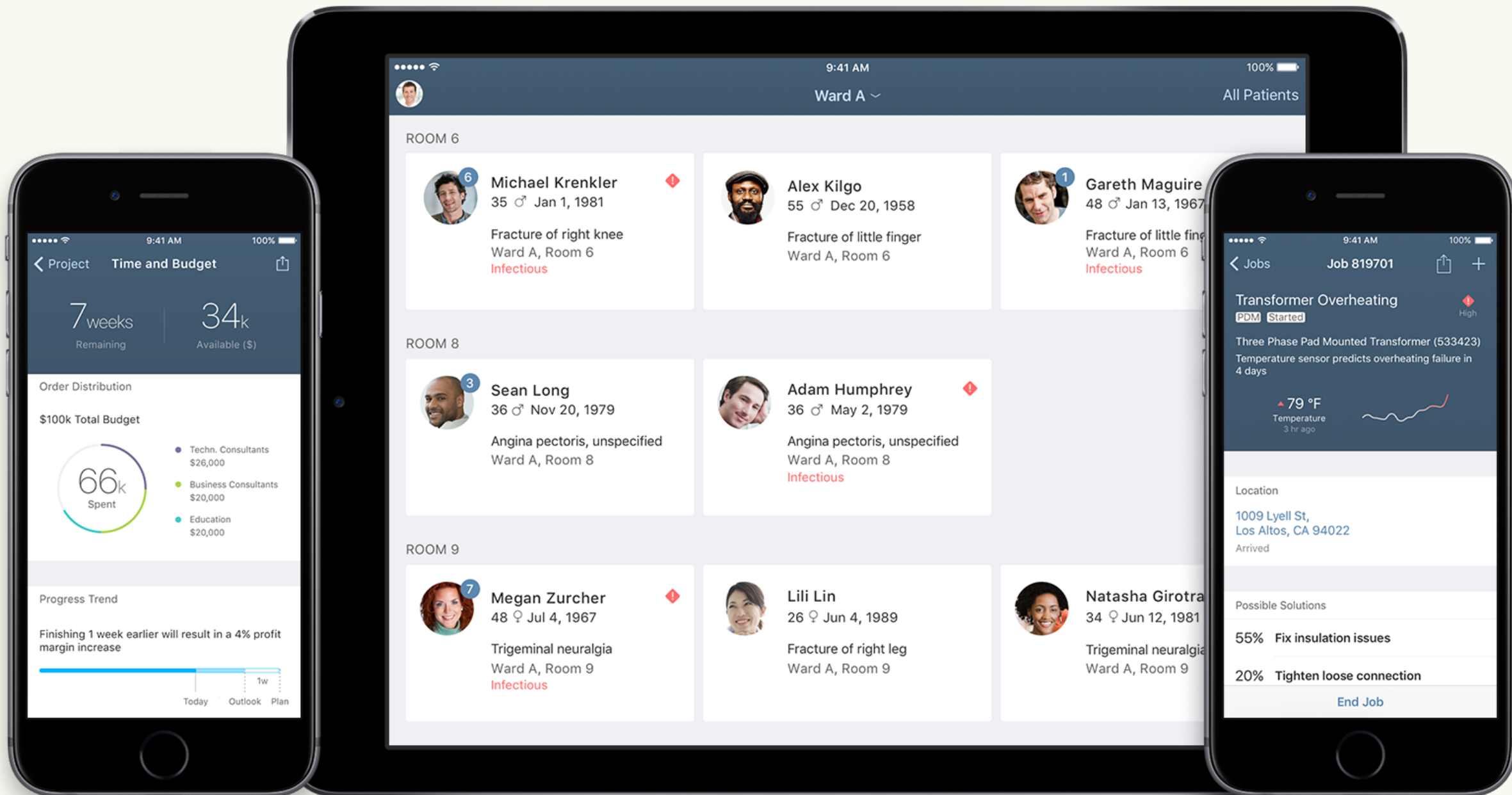
perage.themte@pearlgroup.no

~SAPFioriFlows/SAPFioriFlows/Onboarding/OnboardingController/OnboardingController.swift
- handle(result:flow:completionHandler:)

CRASH REPORTING

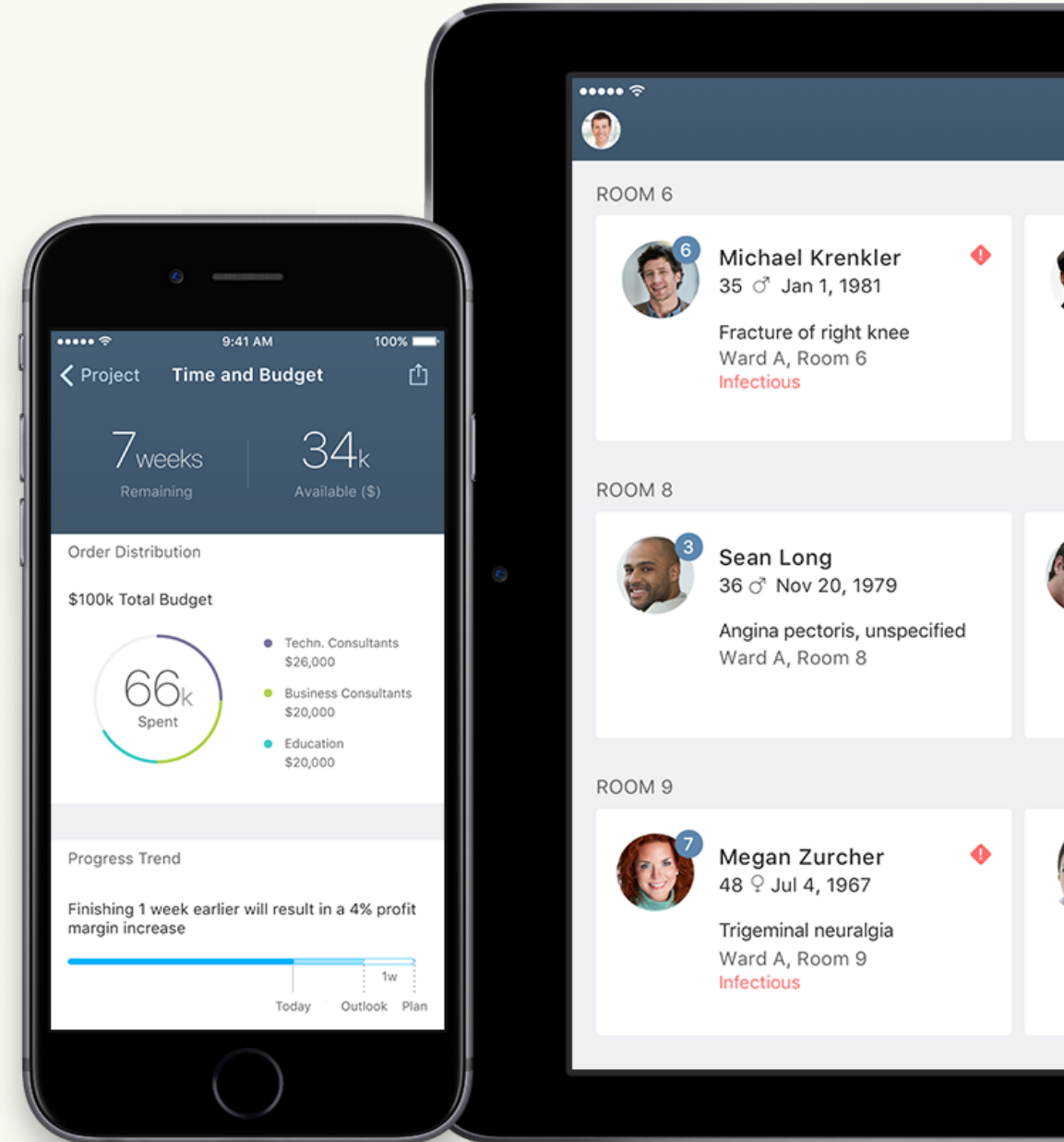
- Symbolicated crash reports
- Full stack trace uploaded after each crash
- Inc. User data, device data, app- and Os versions.





ENDLESS POSSIBILITIES

- Access to all open features of the iOS device including camera, GPS, Bluetooth etc.
- SAP in your hand; Lookup entries, create reports, confirm allocations etc.
- User interface that is intuitive and familiar to all users
- Live data right from the core
- Transform complex business processes into simple gestures
- Native iOS app without any UI delay



Q&A

Thank you for your time

Per-Åge Themte

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