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образования  
**«НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО»**

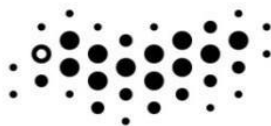
**Отчет**

по лабораторной работе «*Анализ функциональной архитектуры S/4HANA*»

по дисциплине «**Архитектура информационных систем**»

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**УНИВЕРСИТЕТ ИТМО**

Санкт-Петербург 2022

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# PROJECT MANAGEMENT

## Plan your project

The screenshot displays the SAP Project Management dashboard. The top navigation bar includes the SAP logo, a 'Home' dropdown, and a search icon. Below the navigation bar, there are several tiles and sections:

- Introduction** and **Guided Tours** tiles at the top left.
- Project Management** section containing:
  - Plan Customer Projects** tile with a calendar icon and the number '1'.
  - Revenue Recognition (Event-Based) (2) Projects** tile.
  - Review Customer Projects** tile with a calendar icon and the number '0'.
- Accounts Payable** section containing:
  - Manage Supplier Line Items** tile.
  - Accounts Payable Overview** tile.
  - Overdue Payables Today** tile showing 'Critical Ov...' and 'Uncritical ...' values.
  - Cash Discount Utilization Today** tile showing '25.5 %'.
  - Cash Discount Forecast Available Amount** tile showing '272 K'.
  - Aging Analysis Payable Amount** tile showing '88.5 M'.
  - Manage Payment Blocks** tile.
- Accounts Receivable** section at the bottom.

A **Start Guided Tour** overlay is present in the center, asking if the user wants to know more about how a Customer Project Manager plans a project in SAP S/4HANA Cloud. It includes a 'Start' button.

Below the main dashboard, a zoomed-in view of the **Plan Customer Projects** tile is shown. A **Create Customer Project** overlay is displayed over this tile, providing instructions: 'The Plan Customer Projects app helps you to maintain your projects. Choose the Plan Customer Projects tile.' It also includes a 'Previous' button.

**SAP** Customer Projects ▾

Information Work Packages Team Billing Attachments Versions

### Customer Project

Customer: Silverstar Corp.

Project ID: 4213

Project Name: \* Software Upgrade

Project Manager: \* USER0286 Trial

Stage: Contract Preparation

Duration: \* 04/01/2022 - 05/31/2022

Currency: \* USD

Description: Software Upgrade

### Accounting

Maintain Project Information

Make the following entries:

Customer: *Silverstar Corp.*

Project ID: Enter a unique ID without spaces or special characters.

Project Name: *Software Upgrade*

Project Manager: Your user is filled in automatically. **Remember your user for the step Assign Resource.**

Duration: first day of current month - last day of following month (if you use the value help, just select the two days in the calendar)

Description: *Software Upgrade*

Choose *Save and Proceed*.

< Previous Next >

### Project Settings

Public Project: YES

Restrict Unstaffed Posting: YES

Use Project Billing (New): YES



Software Upgrade (4213)

0.00 % Margin (Planned)

Customer: Silverstar Corp. (Atlanta, U...)

Duration: 04/01/2022 - 05/31/2022

Project Manager: USER0286 Trial

Effort (Planned): 0 Hours

Cost (Planned): 0.00 USD

Revenue (Planned): 0.00 USD

Revenue (Sold): 0.00 USD

Margin (Sold): N/A

Stage: Contract Preparation

Information

Work Packages

**Team**

Billing

Attachments

Versions

Add Role

Add Resource

≡

⚙

Role *	Delivery Organization	Work Package *	Work Item	Skills	Resource
Senio...		Busine...	Solutio...	Select	Add Resource

Effort\*: 20

Staffing Instruction: +

Confirmed: ☐ OFF

Cost (Planned): 1.3K USD

Revenue (Planned): 2K USD

Action: Analyze

Assign Roles

Choose Add Role.

In the pop-over window:

Select the role Senior Consultant.

Select Work Package Business Blueprint.

Select Work Item Solution Design.

Enter the Effort in hours: 20.

Choose Add.

< Previous

Next >

Recalculate

Save

Cancel

Show Discussion

Add Resource to Work Package Business Blueprint for Role Senior Consultant

Search By: Person Name

USER0286

Go

Hide Filter Bar

Filters (2)

Delivery Organization:

Cost Center:

Include External Workers:

Company Code:

Service Cost Level:

Results

Duration: 04/01/2022 - 05/31/2022

Selected Effort / Planned Effort: 20 / 20 Hours

Photo

Person Name

Role Name

Skills

Employment ...

Availability

USER0286

Trial

Employee

20 H (100%)

Details:

See Availability

Delivery Organization:

Service Organization - Company US

Add Resource

After defining the required roles and efforts, resources need to be assigned.

Choose Add Resource for the Work Package Business Blueprint.

In the pop-up window, enter your user in the search field and choose Enter.

Select your user and confirm by choosing the Add button.

Previous

Next

Add

Cancel

SAP Customer Projects

Software Upgrade (4213)

Customer: Silverstar Corp. (Atlanta, ...)

Duration: 04/01/2022 - 05/31/2022

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Cost (Planned): 1.3K USD

Revenue (Planned): 2K USD

Revenue (Sold): 2K USD

Margin (Sold): 35 %

Stage: Contract Preparation

Information

Work Packages

Team

Bill

General

Customer Reference:

Customer Reference Date:

Amount to Be Billed (Total):

Items (1)

Create Billing Item

No.

Contract Type

Product

Description

1

Fixed Price

P001

Project-Based Service: Fi...

Assigned Work Packages:

Profit Center:

Planned Revenue:

Business Blueprint

Consulting Unit A (YB101)

2,000.00 USD

Amount to Be Billed:

Status / Rejection Reason:

Information:

2,000.00

USD

Plan Billing

Make the following entries for Item 1:

Contract Type: Fixed Price

Assigned Work Packages: Business Blueprint

Amount To Be Billed: 2,000 USD

Select Item No 1.

Previous

Next

←

SAP

Edit Customer Project ▾

🔍

?

🔔

UT

Billing Details (Item 1)

0.00  
USD (Remaining Amount)

Contract Type: Fixed Price  
Amount to Be Billed: 2,000.00 USD  
Assigned Work Package Dates: 04/01/2022 - 05/31/2022  
Profit Center: Consulting Unit A (YB101)

Billing Instructions

Billing Due Dates

Billing Due Dates

Billing Due Dates (1)

Copy

Create Billing Due Date

Billing Due Date	Item Usage	Note	Processing Status	Amount
<div><div>●</div><div>05/31/2022</div><div>📅</div></div>	<div>Fixed Pri...</div> <div>▼</div>	<div></div>	Open	<div>2,000.00</div> <div>U.</div> <div>✕</div>

Plan Billing

✕

Make the following entries:

Billing Due Date: end of current month

Amount: 2,000 USD

◀ Previous

Next ▶

Customer Projects ▾

🔍

?

🔔

UT

Information

Work Packages

Team

Billing

Attachments

Versions

Customer Project

Accounting

Customer: Silverstar Corp.

Project ID: 4213

Project Name: \* Software Upgrade

Project Manager: \* USER0286 Trial

Stage: In Execution

Duration: \* 04/01/2022 - 05/31/2022

Currency: \* USD

Description: Software Upgrade

Service Organization: Service Organization - Company US

Cost Center: Csltg Unit A (US)

Profit Center: \* Consulting Unit A (YB101)

Project Settings

Public Project: YES

Restrict Unstaffed Posting: YES

Use Project Billing (New): YES

Release Project

✕

Change the stage to In Execution.

Choose Save.

◀ Previous

Next ▶

Save

Cancel

Show Discussion

🔗



Customer Projects

Customer: Silverstar Corp. (Atlanta, U...)

Duration: 04/01/2022 - 05/31/2022

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Cost (Planned): 1.3K USD

35 % Margin (Planned)

Revenue (Planned): 2K USD

Revenue (Sold): 2K USD

Margin (Sold): 35 %

Stage: In Execution

Information

Work

Documents

Versions

Role\*

Delivery Organization

Senior Co...

Service Organization - Company US

Effort\*: 20 H

Staffing Instruction: +

Confirmed: ON

Cost (Planned): 1.3K USD

Revenue (Planned): 2K USD

Action: Analyze

End of Tour

You have successfully completed your tour.

To leave the tour, click *Finish*.

To return to the Home page, choose the SAP logo.

To see how to record your time, choose the guided tour *Record your Time* from the *Guided Tours* App that you can find on the Home screen.

Previous

Finish

Recalculate

Save

Cancel

Show Discussion

### **Цель данного бизнес-процесса**

Это приложение можно использовать для управления проектами клиентов, за которые мы несем ответственность. Это приложение позволяет искать проекты, копировать существующие проекты, редактировать проекты, планировать пакеты работ, усилия, ресурсы и выставление счетов, пересчитывать затраты и доходы, а также анализировать финансовые ключевые показатели эффективности.

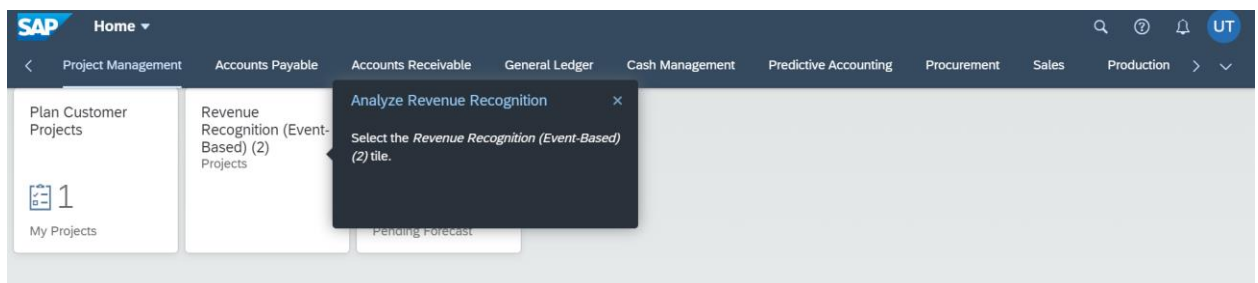
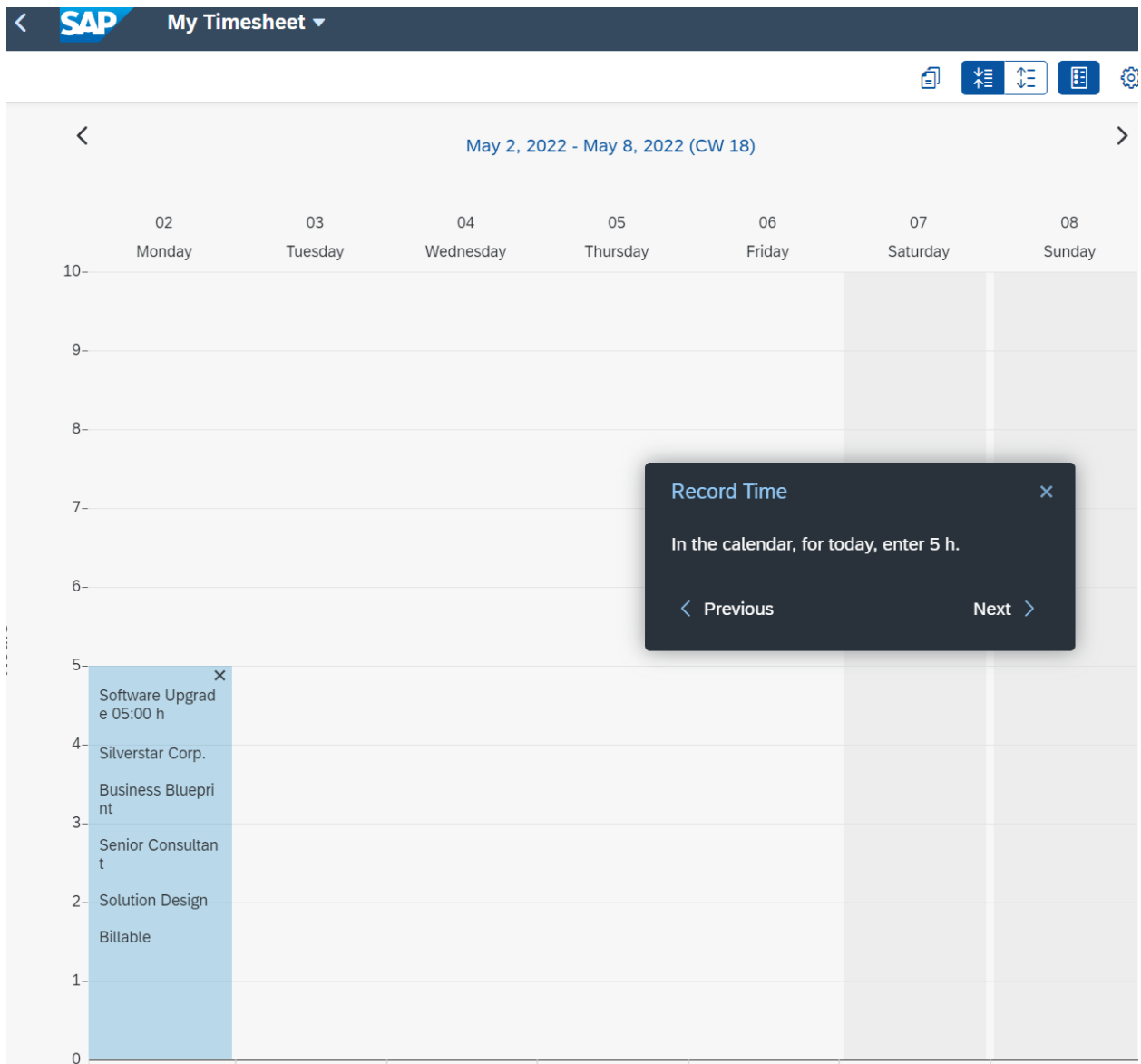
## Record Your Time

The screenshot displays the SAP Employee Self Service interface. At the top, the navigation bar includes 'Home', 'Decisions', 'Maintenance Orders Management', 'Maintenance Request', 'Employee Self Service', and 'SI'. The 'Employee Self Service' section is active, showing a 'Manage My Timesheet' tile with a clock icon and '0 Hours Missing'. A 'Record Time' modal is open, stating: 'The Manage My Timesheet app allows you to record your time. Choose the Manage My Timesheet tile.' with a 'Previous' button.

Below this, the 'My Timesheet' view is shown for the period 'May 2, 2022 - May 8, 2022 (CW 18)'. The grid shows days from Monday to Sunday and hours from 0 to 10. A second 'Record Time' modal is open, instructing: 'Select the project you created within the Create your Project Guided Tour on the right hand side of the screen. Note: To display the project on mobile devices, choose Open My Tasks first.' with a 'Next' button.

On the right, the 'My Tasks' panel lists tasks with their durations:

Task	Duration
Software Upgrade	00:00 Hours
Silverstar Corp. Business Blueprint Senior Consultant Solution Design	20:00 planned
Administration Tasks	00:00 Hours
Miscellaneous	00:00 Hours
Training	00:00 Hours
Travel Times	00:00 Hours



Standard\* ▼

Billing Element:

Company Code:

Project Definition:

Recognition Key:

Project Manager Name:

Go

Adapt Filters (1)

Billing Elements (1) Standard ▼

Show Details ⚙️ 📄 ▼

Billing Element	Company Code	Project Definition	Recognition Key	
4213.0.1	1710 (Velotics Inc.)	4213 (Software Upgrade)	SPFC (SP: Fix Price Cost based POC)	>

Analyze Revenue Recognition ×

Select the line that contains your project and choose the > icon at the end of the line.

< Previous Next >

Standard\* ▼

Billing Element:

Company Code:

Project Definition:

Recognition Key:

Project Manager Name:

Go

Adapt Filters (1)

Billing Elements (1) Standard ▼ ⋮

Billing Element	
4213.0.1	>
Project Definition: 4213 (Software Upgrade)	

4213.0.1

Software Upgrade

Set Parameters Revalue Enter Temporary Adjustment Related Apps 📄 ⋮

To Fiscal Year Period: 005/2022

Recognition Key: SPFC (SP: Fix Price Cost based POC)

Project Manager Name: USER0286 Trial

Ledger: 0L (US GAAP)

Company Code: 1710 (Velotics Inc.)

Processing Status: Released

Income Statement Balance Sheet Plan Data / EAC Chart/Periodical View

Actual

Billed Revenue:  
0.00 USD

Sales Deduction/Surcharge:  
0.00 USD

Actual Cost:  
325.00 USD

Adjustments

Revenue Adjustment:  
500.00 USD

COS Adjustment:  
0.00 USD

Recognized

Recognized Revenue:  
500.00 USD

Recognized COS:  
325.00 USD

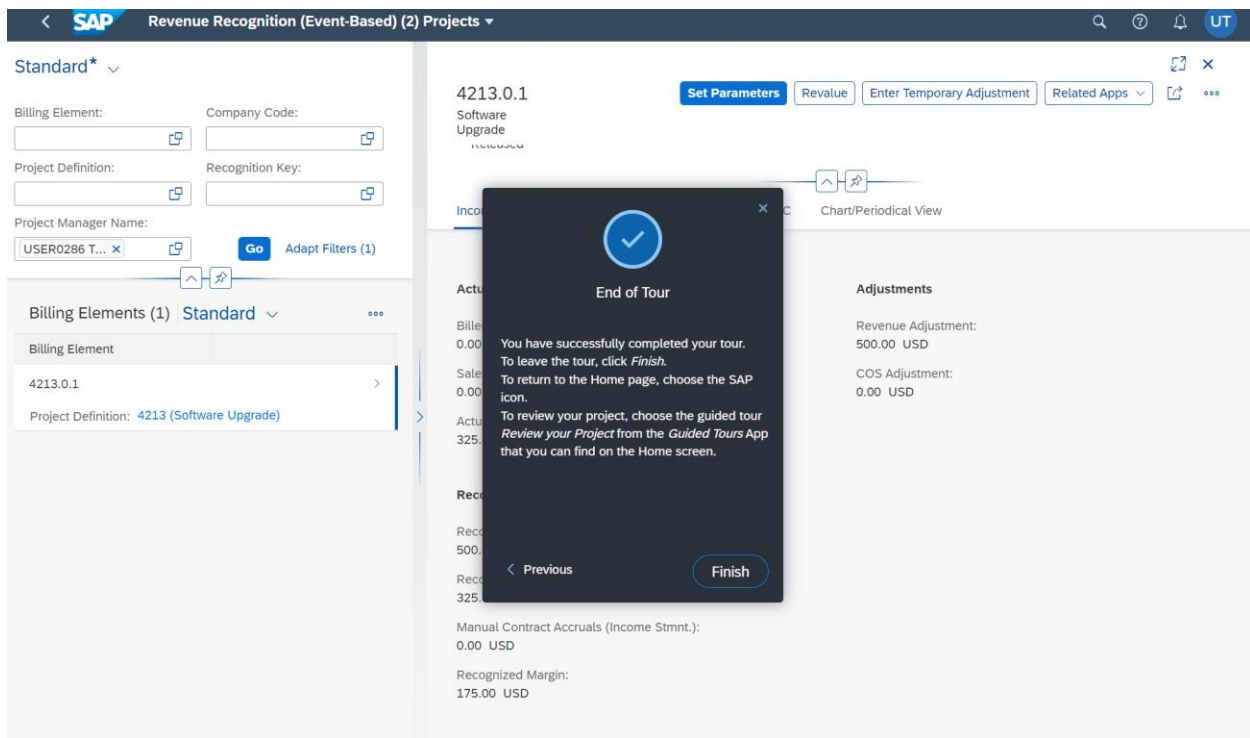
Manual Contract Accruals (Income Stmt.):  
0.00 USD

Analyze Revenue Recognition ×

In the area Actual you see the actual cost posting for the recorded time.

< Previous Next >





## Цель данного бизнес-процесса

Это приложение можно использовать для учета рабочего времени на основе деятельности, что позволяет выставлять счета и счета-фактуры по порученным нам проектам. Мы также можем регистрировать время для задач, не связанных с проектами, таких как администрирование, обучение, командировки и так далее. Типы задач, не связанных с проектами, могут быть назначены как внутренним сотрудникам, так и заёмным работникам.

## Analyze Existing Project

The screenshot displays the SAP Project Management interface. At the top, the SAP logo and 'Home' dropdown are visible. Below the navigation bar, there are tabs for 'Trial Center', 'Project Management', 'Accounts Payable', 'Accounts Receivable', and 'General Ledger'. The main content area shows a grid of tiles: 'Introduction' (with a video icon), 'Guided Tours' (with a puzzle piece icon and the number 20), 'Plan Customer Projects' (with a checklist icon and the number 1), and 'My Projects'. A dark overlay titled 'Analyze a Project' is positioned over the 'Plan Customer Projects' tile. The overlay contains the following text:

**Analyze a Project** [X]

Select the Plan Customer Projects tile.

You can use this app to create new projects, edit existing projects and analyze existing projects.

< Previous

Below the overlay, the 'Plan Customer Projects' tile is visible, showing a list of projects. The first project is 'Software Upgrade' by 'Silverstar Corp.' with a '35 % Margin (Planned)' and 'In Execution' status. The date range '04/01/2022 - 05/31/2022' is also shown. To the right of the project list, there are details for 'Customer Analytics Implementation 2020', including '20 Hours', '1.3K USD', and '2K USD'. At the bottom right, there are icons for 'Billing', 'Attachments', and a document icon.

**Customer Projects (1)**

Search [ ] [ ] [ ]

Project Name	Customer	Duration	Revenue (USD)	Margin (USD)	Stage
Software Upgrade	Silverstar Corp.	04/01/2022 - 05/31/2022	20 Hours	1.3K USD	In Execution

**Software Upgrade** 35 % Margin (Planned)

Silverstar Corp.

04/01/2022 - 05/31/2022 In Execution

**Customer Analytics Implementation 2020**

20 Hours

1.3K USD

2K USD

Revenue (USD)

Margin (USD)

Stage: In Execution

**Analyze a Project** [X]

You see your projects on the left hand side.

Please note that this list is empty if you have not created a project so far.

To analyze a predefined project, enter *Customer Analytics Implementation 2020* in the search field and choose Search.

Next >

Billing Attachments



Customer Projects (1)

Search

Software Upgrade

35 %

Margin (Planned)

Silverstar Corp.

04/01/2022 - 05/31/2...

In Execution

Plan Customer Projects

Software Upgrade (4213)

35 % Margin (Planned)

Customer: Silverstar Corp. (A...

Duration: 04/01/2022 - 05/31/2022

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Revenue (Sold): 2K USD

Margin (Sold): 35 %

Stage: In Execution

Information

Work Packages

Attachments

Versions

Customer Project

Customer: Silverstar Corp.

Project ID: 4213

Project Name: Software Upgrade

Project Manager: USER0286 Trial

City: Atlanta

Analyze a Project

You see the general information about the project.

Select Work Packages.

Previous

Next

Customer Projects (1)

Search

Software Upgrade

35 %

Margin (Planned)

Silverstar Corp.

04/01/2022 - 05/31/2...

In Execution

Plan Customer Projects

Software Upgrade (4213)

35 % Margin (Planned)

Customer: Silverstar Corp. (A...

Duration: 04/01/2022 - 05/31/2022

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Cost (Planned): 1.3K USD

Revenue (Sold): 2K USD

Information

Work Packages

Staffing

Resource Based (Time)

Name	ID	Duration	Work Item	Staffing Status	Cost	Revenue
Business Blueprint	4213.1.1	04/01/2022 - 05/31/2022	Assigned	✓	20 Hours	1.3K USD

Analyze a Project

Here you see the project structure, the planned efforts, costs and revenues.

The Staffing Status shows, if the Work Items are assigned to Employees.

Select Team.

Previous

Next

Customer Projects (1)

Search

Software Upgrade

35 %

Margin (Planned)

Silverstar Corp.

04/01/2022 - 05/31/2...

In Execution

Plan Customer Projects

Software Upgrade (4213)

35 %

Margin (Planned)

Customer: Silverstar Corp. (A...

Duration: 04/01/2022 - 05/3...

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Cost (Planned): 1.3K USD

Revenue (Planned): 2K USD

Revenue (Sold): 2K USD

Margin (Sold): 35 %

Information

Work Packages

Team

Billing

Analyze a Project

You see the team members and their assignment to the work packages.

Select Billing.

Previous

Next

Role	Delivery Organization	Work Package	Work Item	Skills	Resource	Effort	Staffing Instruction	Confirmed
Senior Consultant	Service Organization - Company US	Business Blueprint	Solution Design	Unassigned	USER0286 Trial	20 H	ON	ON

Cost: 1.3K USD

Revenue: 2K USD

Action: Analyze

Customer Projects (1)

Search

Software Upgrade

35 %

Margin (Planned)

Silverstar Corp.

04/01/2022 - 05/31/2...

In Execution

Plan Customer Projects

Software Upgrade (4213)

35 %

Margin (Planned)

Customer: Silverstar Corp. (A...

Duration: 04/01/2022 - 05/3...

Project Manager: USER0286 Trial

Effort (Planned): 20 Hours

Cost (Planned): 1.3K USD

Revenue (Planned): 2K USD

Revenue (Sold): 2K USD

Margin (Sold): 35 %

Stage: In Execution

Information

Work Packages

Team

Billing

Attachments

Versions

Analyze a Project

On this tab, you see how the project is billed to the customer.

Select an item to see the details of the Billing Plan.

Choose Back to return to the Project Overview screen.

Previous

Next

General

CU

Customer

Amount to

Display Service ...

Manage Prices

Sales Order (13...

Items (1)

No.	Contract type	Product	Description	Assigned Work Packages
1	Fixed Price	P001	Project-Based Service: Fixed Price	Business Blueprint

Profit Center: Consulting Unit A (YB101)

Status / Rejection Reason: Open

Planned Revenue: 2,000.00 USD

Information:

Amount to Be Billed: 2,000.00 USD

18

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SAP

Customer Projects ▾

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UT

Billing Details (Item 1)

0.00  
USD (Remaining Amount)

Contract Type: Fixed Price

Amount to Be Billed: 2,000.00 USD

Assigned Work Package Dates: 04/01/2022 - 05/31/2022

Profit Center: Consulting Unit A (YB101)

Billing Instructions

Billing Due Dates

Billing Item Partners

Billing Instructions

Billing Due Dates

Billing Due Dates (1)

Billing Due Date	Item Usage	Note	Processing Status	Amount
05/31/2022	Fixed Price		Open	2,000.00 USD

Billing Item Partners

✕

✓

End of Tour

You have successfully completed your tour.

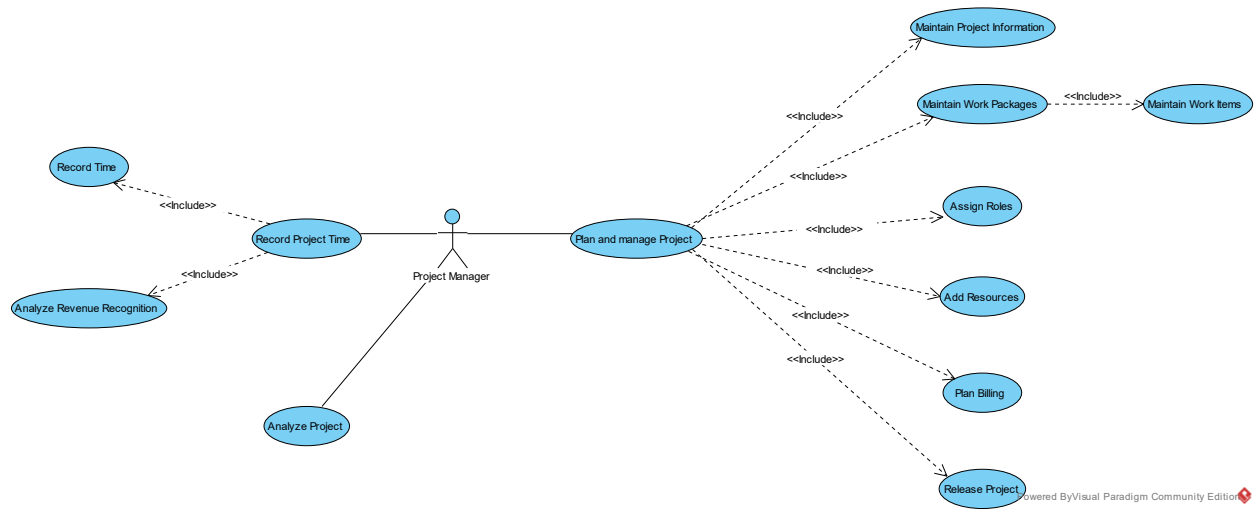
To leave the tour, click *Finish*.

To return to the Home page, choose the SAP logo.

< Previous

Finish

## Use-Case Diagram



## Class Diagram

