

Project Specification Document

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Employee Management for Deployment Phase

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About this Document

This functional and integration (FIS) document will enable you to understand the proposed solution of EmployeeManagement.com || The content of the document will have a solution and its configuration details as it will be available for our client.

How this Document is organized

- This document is organized into following chapters:
- "Introduction" provides solution scope to be delivered to our client.
- "Flow chart" provides how the user is interacting with the application.
- "Solution Overview" provides Deployment Information and information on Employee Management Pvt. Ltd., Components and Interfaces in system.
- **DataBase Details** provides the information about Database.
- **"Link of Project after Deployment of Project"** provides the information about link of Project.
- **"GitHub link"** provides the information where the project is located.

Contact Information

Employee Management App invites your comments and suggestions on the quality and usefulness of this document. For any questions, comments, or suggestions on the documentation, you can contact us at the following address:

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EmployeeManagement.com

Introduction

This document describes the implementation of *Employee Management* and how its users can interact with the application.
Employee Management is a portal that has capability to manage data of Employee for any organization.

Objectives

The Employee Management system creates an application that enables users to manage data for employee for any organization.

This system contains four main modules: ADD, UPDATE, DELETE and VIEW.

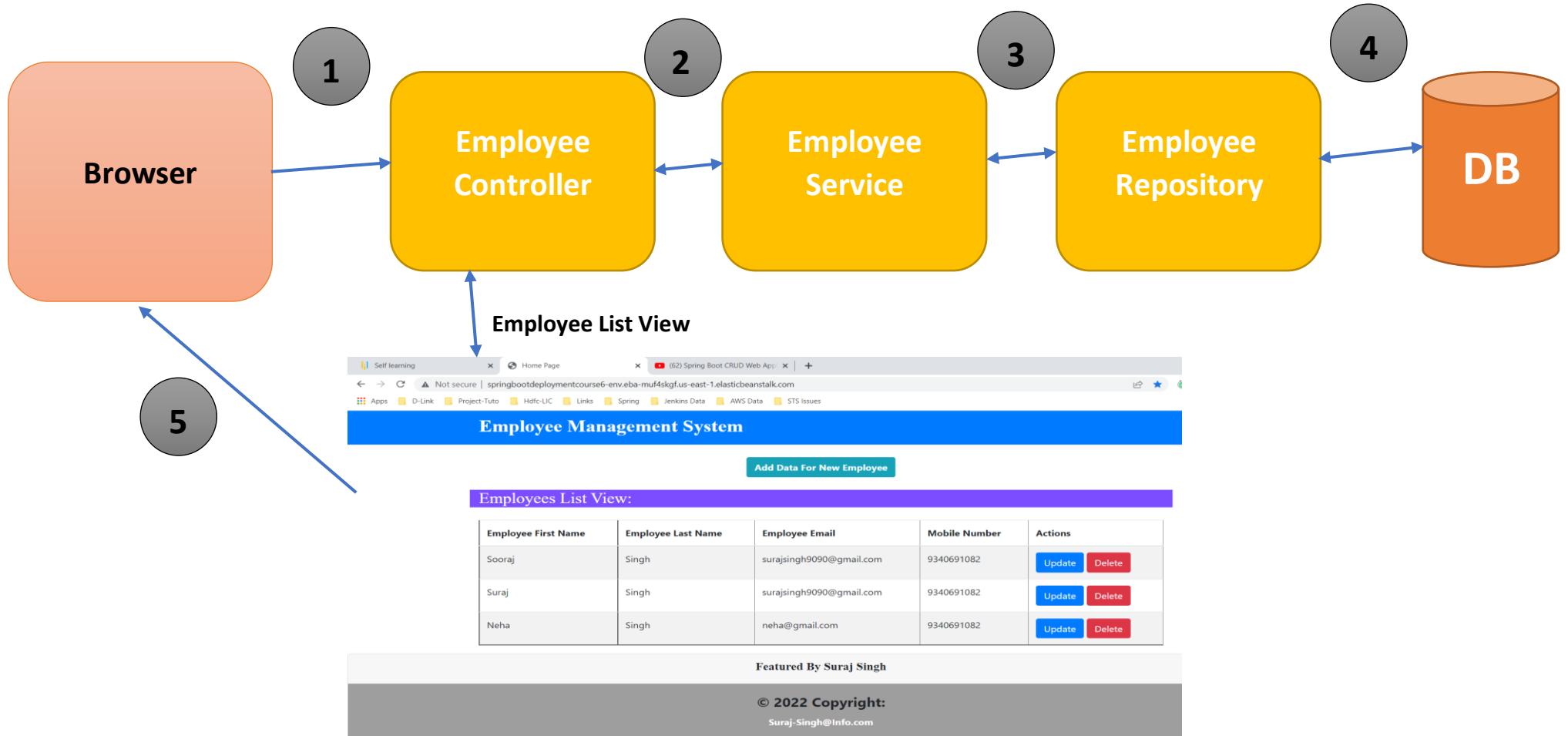
ADD section of the *Employee Management* Provides facility for adding data of Employee.

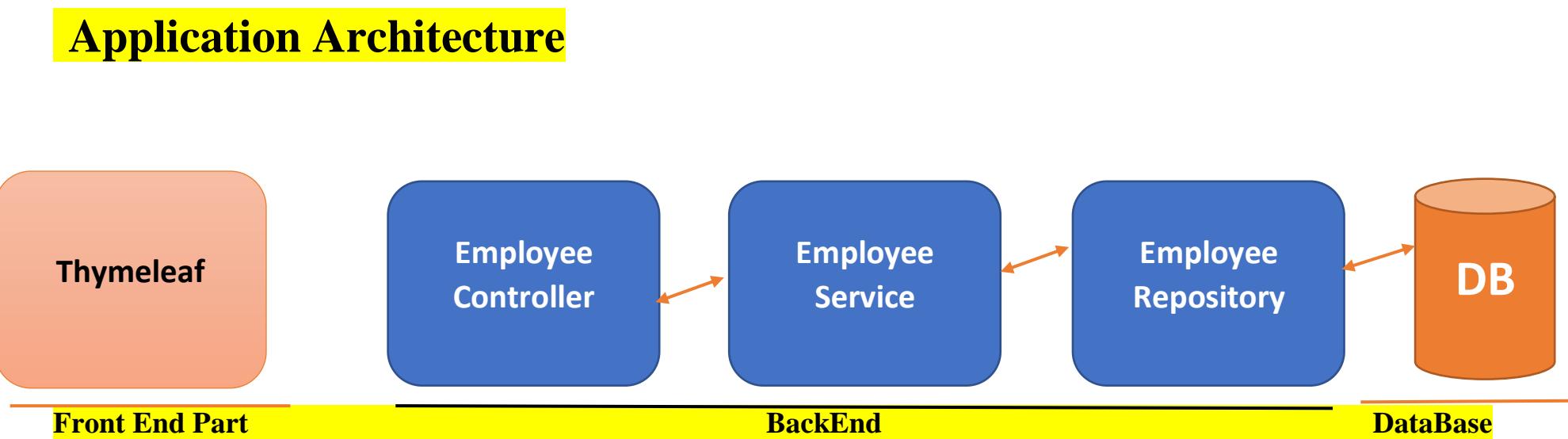
UPDATE section of the *Employee Management* Provides facility for Updating data of Employee.

DELETE section of the *Employee Management* Provides facility for deleting data of Employee.

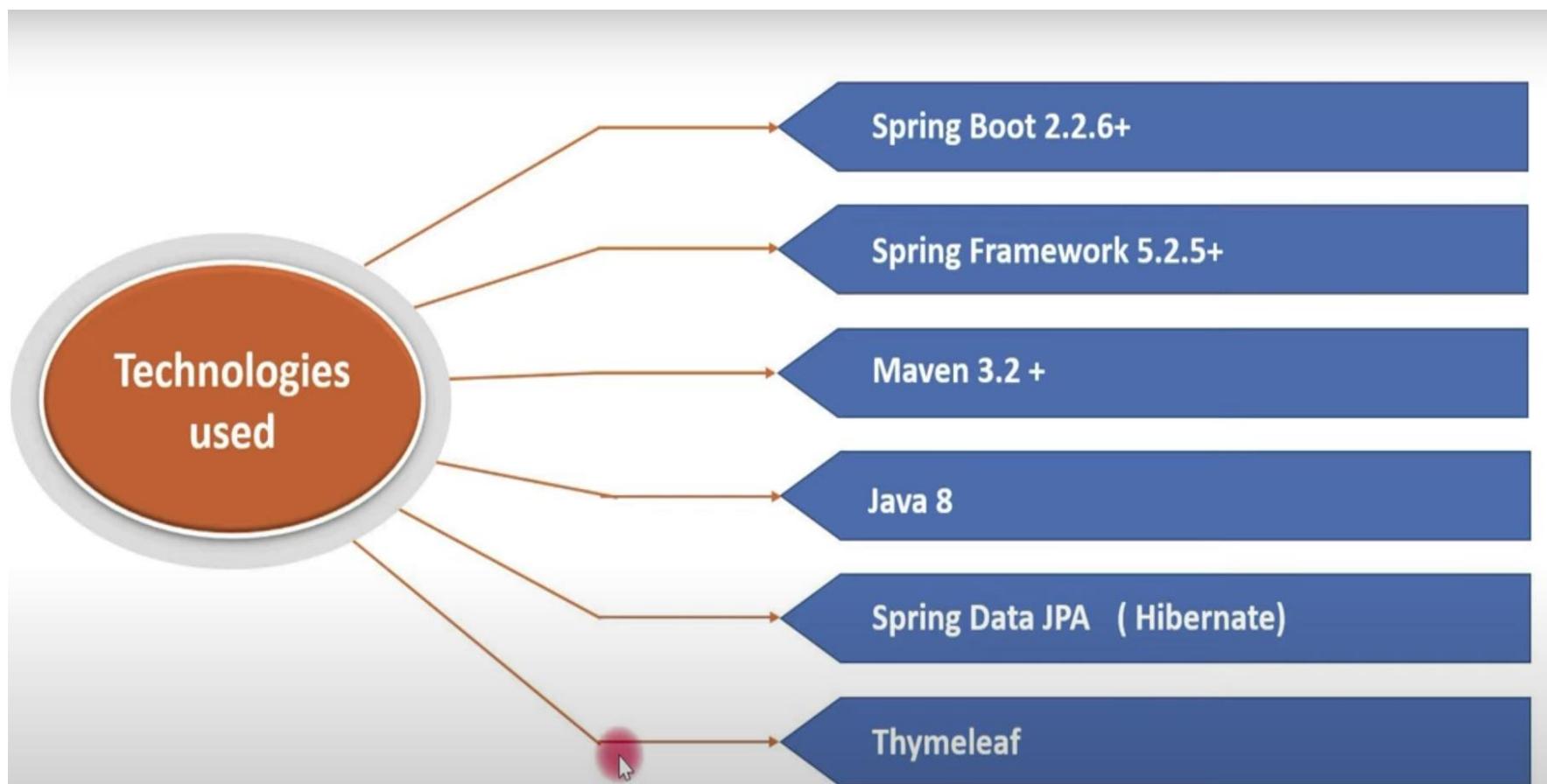
VIEW section of the *Employee Management* Provides facility for Viewing data of Employee.

Flow Chart Diagram





Technologies Used in this Application



Solution Overview

Platform requirement

The platform used for this project is the STS IDE, MySQL Workbench, MAVEN, AWS.

"Solution Overview" For Application Deployment on AWS Cloud

It contains information about that How to create DataBase Enjoinment on AWS and How to Deploy Application on AWS after creating JAR File of Application.

Creation of DataBase Enviorment on AWS

DB Instances Name- employee-management

Username - root

Password – root1234

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Employee Management for Deployment

The screenshot shows the Amazon RDS Management Console interface. At the top, there are three tabs: 'What is AWS ? Amazon CloudWatch' (active), 'Home Page', and 'RDS Management Console'. Below the tabs, the URL is `us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#`. The navigation bar includes links for 'Apps', 'D-Link', 'Project-Tuto', 'Hdfc-LIC', 'Links', 'Spring', 'Jenkins Data', 'AWS Data', and 'STS Issues'. The main menu on the left is titled 'Amazon RDS' and includes sections for 'Dashboard', 'Databases', 'Query Editor', 'Performance insights', 'Snapshots', 'Automated backups', 'Reserved instances', 'Proxies', 'Subnet groups', 'Parameter groups', 'Option groups', 'Custom engine versions', 'Events', 'Event subscriptions', and 'Recommendations' (0). A central callout box promotes the 'Multi-AZ deployment option for MySQL and PostgreSQL'. The 'Resources' section displays usage statistics for DB Instances, DB Clusters, Reserved instances, Snapshots, and Event subscriptions. To the right, a 'Recommended for you' sidebar lists 'Migrate SSRS to RDS for SQL Server', 'Implementing Cross-Region DR', 'Build RDS Operational Tasks', and 'Test Your DR Strategy in Minutes'. The bottom of the screen shows the Windows taskbar with various pinned icons and system status information.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface for creating a new database. At the top, there is a banner message: "We listened to your feedback! Now, create a database with a single click using our pre-built configurations! Or choose your own configurations. [Switch to your original interface.](#)" Below this, the main title is "Create database". Under "Choose a database creation method", the "Standard create" option is selected. In the "Engine options" section, "Amazon Aurora" is chosen. The interface includes a search bar at the bottom left and various system status indicators at the bottom right.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. At the top, there are three tabs: "What is AWS ? Amazon Cloud", "Home Page", and "RDS Management Console". Below the tabs, the URL is `us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=false`. The navigation bar includes links for "Apps", "D-Link", "Project-Tuto", "Hdfe-LIC", "Links", "Spring", "Jenkins Data", "AWS Data", and "STS Issues". The main content area is titled "Services" and shows a search bar with "Search for services, features, blogs, docs, and more" and a keyboard shortcut "[Alt+S]". The "Engine type" section is selected, showing options for Amazon Aurora, MySQL (selected), MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server. Under "Edition", "MySQL Community" is selected. A "Known issues/limitations" box contains a note about potential compatibility issues with specific database versions. The "Version" dropdown is set to "MySQL 8.0.28". At the bottom, there are sections for "Feedback", "Unified Settings", "Privacy", "Terms", and "Cookie preferences". The taskbar at the bottom shows a search bar with "Type here to search", icons for File Explorer, Firefox, Teams, OneDrive, Word, Excel, and Edge, and system status indicators for weather (29°C Rain), battery, signal, and language (ENG). The date and time are shown as 16-05-2022 15:41.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. At the top, there are three tabs: "What is AWS ? Amazon Cloud", "Home Page", and "RDS Management Console". Below the tabs, the URL is `us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=false`. The main content area is titled "Edition" and shows "MySQL Community" selected. A "Known issues/limitations" section contains a note to review potential compatibility issues. The "Version" dropdown is set to "MySQL 8.0.28". The "Templates" section offers "Production", "Dev/Test", and "Free tier" options, with "Free tier" selected. The "Availability and durability" section is partially visible. At the bottom, there are links for "Feedback", "Unified Settings", "Privacy", "Terms", and "Cookie preferences". The taskbar at the bottom of the screen shows various application icons and the system clock indicating 15:41 on 16-05-2022.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. The top navigation bar has tabs for 'Home Page' and 'RDS Management Console'. Below the navigation is a toolbar with various icons for 'Apps', 'D-Link', 'Project-Tuto', 'Hdfc-LIC', 'Links', 'Spring', 'Jenkins Data', 'AWS Data', and 'STS Issues'. The main content area is titled 'Settings' and contains fields for 'DB instance identifier' (set to 'employee-management'), 'Master username' (set to 'root'), 'Master password' (set to '*****'), and 'Confirm password' (set to '*****'). A section titled 'Instance configuration' is partially visible at the bottom. The bottom of the screen shows the Windows taskbar with the Start button, a search bar, and icons for File Explorer, Edge, Microsoft Teams, OneDrive, Word, Excel, and others. Weather information (29°C Rain) and system status (15:45, ENG, 16-05-2022) are also displayed.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. The top navigation bar includes tabs for 'Home Page' and 'RDS Management Console'. Below the navigation is a toolbar with various icons for 'Apps', 'D-Link', 'Project-Tuto', 'Hdfc-LIC', 'Links', 'Spring', 'Jenkins Data', 'AWS Data', and 'STS Issues'. A search bar at the top right contains the placeholder 'Search for services, features, blogs, docs, and more [Alt+S]'. On the left, a sidebar menu has 'Services' selected. The main content area is divided into sections:

- Instance configuration:** This section shows DB instance class options. It lists three categories: 'Standard classes (includes m classes)', 'Memory optimized classes (includes r and x classes)', and 'Burstable classes (includes t classes)'. The 'Burstable classes' option is selected, with 'db.t3.micro' chosen from a dropdown. Other details include '2 vCPUs', '1 GiB RAM', and 'Network: 2,085 Mbps'. There is also a checkbox for 'Include previous generation classes'.
- Storage:** This section specifies storage type as 'General Purpose SSD (gp2)' and 'Allocated storage' as '20 GiB'. A note states '(Minimum: 20 GiB. Maximum: 16,384 GiB) Higher allocated storage can improve IOPS performance.'
- Storage autoscaling:** This section provides dynamic scaling support. A checkbox for 'Enable storage autoscaling' is checked, with a note explaining it allows storage to increase after specified thresholds.

At the bottom of the page, there are links for 'Feedback', 'Unified Settings', 'Privacy', 'Terms', and 'Cookie preferences'. The status bar at the bottom right shows the date '16-05-2022', time '15:45', weather '29°C Rain', and language 'ENG'.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. At the top, there are three tabs: "(19) What is AWS ? Amazon Clou...", "(19) Spring Boot AWS Deployer...", and "RDS Management Console". The main content area is titled "Storage" and shows the following configuration:

- Allocated storage:** 20 GiB (Minimum: 20 GiB, Maximum: 16,384 GiB). A note states: "Higher allocated storage can improve IOPS performance."
- Storage autoscaling:** Enabled (checkbox checked). A note says: "Provides dynamic scaling support for your database's storage based on your application's needs." Another note under "Enable storage autoscaling" says: "Enabling this feature will allow the storage to increase after the specified threshold is exceeded."
- Maximum storage threshold:** 1000 GiB (Minimum: 22 GiB, Maximum: 16,384 GiB).

Below the storage section is a "Connectivity" section:

- Virtual private cloud (VPC):** Default VPC (vpc-007fffc33d2828d31). A note says: "VPC that defines the virtual networking environment for this DB instance." A dropdown menu shows "Default VPC (vpc-007fffc33d2828d31)".
- Subnet group:** Subnet group (Info). A note says: "DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected." A dropdown menu shows "Subnet group (Info)".

At the bottom of the page, there is a "Feedback" link and a note: "Looking for language selection? Find it in the new Unified Settings". The footer includes the copyright notice "© 2022, Amazon Internet Services" and a Bitdefender Endpoint Security Tools notification: "An update process has been completed successfully". The taskbar at the bottom shows various pinned icons and the system tray with weather information (29°C Rain), battery level (ENG 15:46), and date (16-05-2022).

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface for creating a new database instance. The top navigation bar includes tabs for 'Home Page' and 'RDS Management Console'. The main search bar contains the query 'Search for services, features, blogs, docs, and more [Alt+S]'. The left sidebar lists various AWS services like 'AWS', 'Services', 'D-Link', 'Project-Tuto', etc. The main content area is titled 'Subnet group' and shows a dropdown menu set to 'default'. It has sections for 'Public access' (with 'Yes' selected), 'VPC security group' (with 'Choose existing' selected and 'default' chosen), 'Existing VPC security groups' (listing 'default'), and 'Availability Zone' (set to 'No preference'). A 'Additional configuration' section includes a 'Database port' field. The bottom of the page features a Windows taskbar with icons for File Explorer, Edge browser, Task View, Word, Excel, and others, along with system status indicators for weather, battery, and connectivity.

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. At the top, there are three tabs: 'What is AWS ? Amazon Cloud' (closed), 'Home Page' (closed), and '(19) Spring Boot AWS Deployer'. Below the tabs, the URL is `us-east-1.console.aws.amazon.com/rds/home?region=us-east-1#launch-dbinstance:gdb=false;isHermesCreate=true;s3-import=false`. The navigation bar includes links for 'Apps', 'D-Link', 'Project-Tuto', 'Hdfc-LIC', 'Links', 'Spring', 'Jenkins Data', 'AWS Data', and 'STS Issues'. The main search bar says 'Search for services, features, blogs, docs, and more [Alt+S]'. On the left, there's a sidebar with 'Choose VPC security groups' dropdown set to 'default X', 'Availability Zone' dropdown set to 'No preference', and a collapsed 'Additional configuration' section for 'Database port' (set to 3306). A large panel on the right is titled 'Database authentication' and contains three options: 'Password authentication' (selected, described as 'Authenticates using database passwords'), 'Password and IAM database authentication' (described as 'Authenticates using the database password and user credentials through AWS IAM users and roles'), and 'Password and Kerberos authentication' (described as 'Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication'). At the bottom, there's a dark footer bar with 'Feedback', 'Unified Settings' (link), '© 2022, Amazon Internet Services Private Ltd. or its affiliates.', 'Privacy', 'Terms', 'Cookie preferences', a search bar, and system status indicators.

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Employee Management for Deployment

The screenshot shows a web browser window with three tabs open: "What is AWS? Amazon Cloud", "Home Page", and "RDS Management Console". The "RDS Management Console" tab is active, displaying the "Create database" wizard. The page title is "Employee Management for Deployment". The top navigation bar includes links for "Apps", "D-Link", "Project-Tuto", "Hdfc-LIC", "Links", "Spring", "Jenkins Data", "AWS Data", and "STS Issues". A search bar at the top right contains the placeholder "Search for services, features, blogs, docs, and more [Alt+S]". On the left, there's a sidebar with a "Services" section and a "Navigation" section with a "No preference" radio button selected. The main content area starts with a heading "Deletion protection" and a checkbox for "Enable deletion protection" which is unchecked. Below this, a section titled "Estimated monthly costs" explains the Amazon RDS Free Tier and lists benefits such as 750 hrs of Amazon RDS in a Single-AZ db.t2.micro, db.t3.micro or db.t4g.micro Instance, 20 GB of General Purpose Storage (SSD), and 20 GB for automated backup storage and any user-initiated DB Snapshots. It also links to "Learn more about AWS Free Tier". A note below states: "You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services." At the bottom, there are "Cancel" and "Create database" buttons. The footer includes links for "Feedback", "Unified Settings", "Privacy", "Terms", "Cookie preferences", and copyright information: "© 2022, Amazon Internet Services Private Ltd. or its affiliates.". The system status bar at the bottom shows "29°C Rain", "15:48", "16-05-2022", and "ENG".

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console interface. At the top, there are four browser tabs: 'What is AWS? Amazon Cloud', 'Home Page', 'Spring Boot AWS Deployer', and 'Sooraj678/CI-CD-Deployment-fo'. The main content area displays a green success message: 'Successfully created database employee-management'. Below this, the database name 'employee-management' is shown in the breadcrumb trail: 'RDS > Databases > employee-management'. To the right are 'Modify' and 'Actions' buttons. The left sidebar is titled 'Amazon RDS' and includes sections for Dashboard, Databases (selected), Query Editor, Performance insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, and Event subscriptions. The 'Databases' section is currently active. The main summary table provides details about the database:

DB identifier employee-management	CPU 2.98%	Status Available	Class db.t3.micro
Role Instance	Current activity 0 Connections	Engine MySQL Community	Region & AZ us-east-1f

Below the summary, there are tabs for Connectivity & security (selected), Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The 'Connectivity & security' section contains tabs for Endpoint & port, Networking, and Security.

At the bottom, there are links for Feedback, Unified Settings, Copyright notice (© 2022, Amazon Internet Services Private Ltd. or its affiliates.), Privacy, Terms, and Cookie preferences. The taskbar at the bottom shows the file 'CI-CD-Deployment....zip' is open, along with icons for File Explorer, Firefox, Microsoft Teams, OneDrive, Word, Excel, Edge, Google Chrome, and Notepad. The system tray shows the date (16-05-2022), time (16:29), battery level (ENG), signal strength, and weather (28°C Rain showers).

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Employee Management for Deployment

The screenshot shows the AWS RDS Management Console for an Employee Management database. The left sidebar lists various database management options like Dashboard, Databases, and Monitoring. The main content area is titled 'Connectivity & security' and contains three columns: 'Endpoint & port', 'Networking', and 'Security'. The 'Endpoint & port' section shows the endpoint as 'employee-management.c2izfpc9cwsa.us-east-1.rds.amazonaws.com' and the port as '3306'. The 'Networking' section details the VPC ('vpc-007fffc33d2828d31') and subnet group ('default-vpc-007fffc33d2828d31'), listing several subnets. The 'Security' section includes 'VPC security groups' (set to 'default (sg-00cdaf13917ce0779)' which is 'Active'), 'Publicly accessible' status ('Yes'), 'Certificate authority' ('rds-ca-2019'), and the 'Certificate authority date' ('August 22, 2024, 10:38 (UTC±10:38)').

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Employee Management for Deployment

The screenshot shows the Amazon RDS Management Console interface. On the left, a sidebar menu lists various options under 'Amazon RDS': Dashboard, Databases (selected), Query Editor, Performance insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, and Event subscriptions. The main content area is divided into two sections: 'Replication (1)' and 'Proxies (0)'. The 'Replication' section displays a table with one row for the 'employee-management' DB instance, which is an 'Instance' in the 'us-east-1f' Region & AZ. The 'Proxies' section shows a table with no rows, indicating 'No proxies'. A 'Create proxy' button is available at the top right of this section. At the bottom of the page, there is a feedback link, copyright information (© 2022, Amazon Internet Services Private Ltd. or its affiliates.), and links for Privacy, Terms, and Cookie preferences. The taskbar at the bottom includes icons for File, Home, Task View, Start, Taskbar settings, and a search bar.

Feedback Looking for language selection? Find it in the new Unified Settings

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CI-CD-Deployment....zip

Type here to search

File Home Task View Start Taskbar settings

28°C Rain showers 16:29 16-05-2022 ENG

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Employee Management for Deployment

The screenshot shows the AWS EC2 Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-00cdaf13917ce0779>. The page displays the 'Edit inbound rules' section for a security group. It lists two existing rules:

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0c35835f530006ded	All traffic	All	All	Custom	sg-00cdaf13917ce0779
-	MySQL/Aurora	TCP	3306	Anywh...	0.0.0.0/0

Below the table, there is an 'Add rule' button. At the bottom right, there are 'Cancel', 'Preview changes', and 'Save rules' buttons. The status bar at the bottom shows a file named 'CI-CD-Deployment....zip' and system information like weather, battery level, and date.

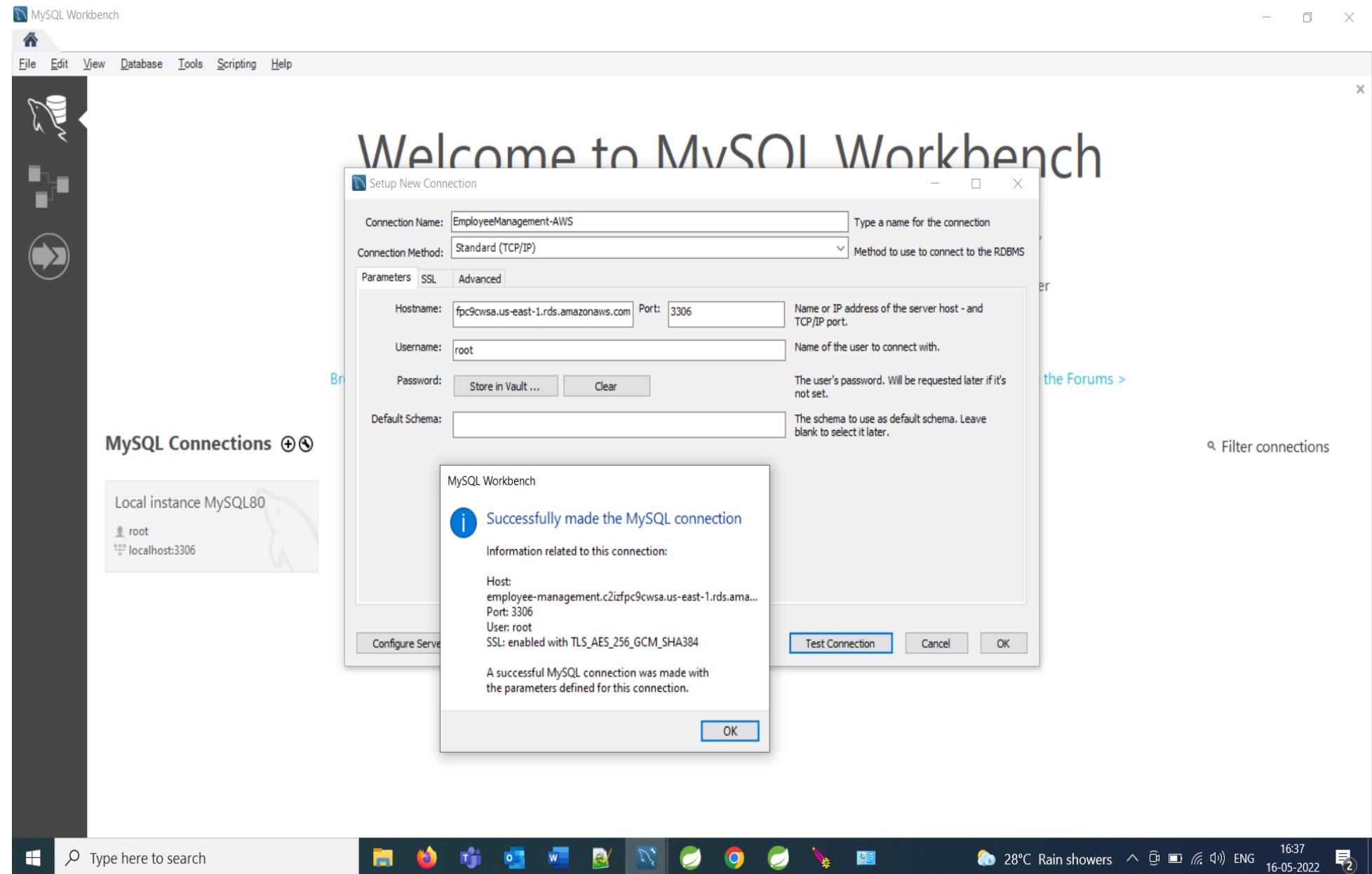
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Employee Management for Deployment

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'What is AWS?', 'Home Page', '(19) Spring Boot AWS', 'EC2 Management Console', 'Sooraj678/CI-CD-Deployme...', 'what to choose anywhere...', and a search bar. Below the navigation is a toolbar with icons for 'Apps', 'D-Link', 'Project-Tuto', 'Hdfc-LIC', 'Links', 'Spring', 'Jenkins Data', 'AWS Data', and 'STS Issues'. The main content area displays a success message: 'Inbound security group rules successfully modified on security group (sg-00cdaf13917ce0779 | default)' with a 'Details' link. The URL in the address bar is 'us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroup:group-id=sg-00cdaf13917ce0779'. On the left, a sidebar menu lists 'New EC2 Experience' (with a feedback link), 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Tags', 'Limits', 'Instances' (with links to 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Scheduled Instances', 'Capacity Reservations'), and 'Images'. A bottom status bar shows a file named 'CI-CD-Deployment....zip', a search bar, taskbar icons (File Explorer, Firefox, Microsoft Teams, Microsoft Word, Microsoft Excel, Microsoft Powerpoint, Microsoft Edge, Google Chrome, Microsoft Edge, Microsoft Word, Microsoft Excel, Microsoft Powerpoint), system status (28°C Rain showers, ENG, 16:32, 16-05-2022), and a notification icon.

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Employee Management for Deployment



Deployment of Application on AWS

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Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console interface. At the top, there is a navigation bar with tabs for 'Services' (selected), 'Compute', 'Storage', and 'Logs'. Below the navigation bar, there is a search bar with placeholder text 'Search for services, features, blogs, docs, and more' and a keyboard shortcut '[Alt+S]'. On the left side, there is a sidebar with links for 'Environments', 'Applications', and 'Change history'. The main content area features a large heading 'Amazon Elastic Beanstalk' with the subtext 'End-to-end web application management.' Below this, there is a brief description of the service: 'Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.' To the right of the main content, there is a 'Get started' section with a button labeled 'Create Application'. At the bottom of the page, there are links for 'Feedback', 'Unified Settings', 'Pricing', 'Privacy', 'Terms', and 'Cookie preferences'. The status bar at the bottom of the browser window shows the file 'CI-CD-Deployment....zip' is being processed, the date '16-05-2022', the time '16:48', the temperature '28°C', and the language 'ENG'.

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Employee Management for Deployment

us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/gettingStarted

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Create a web app

Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. [Learn more](#)

Application information

Application name

Up to 100 Unicode characters, not including forward slash (/).

Application tags

Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. [Learn more](#)

Key	Value	Remove tag
<input type="text"/>	<input type="text"/>	<button>Remove tag</button>
<button>Add tag</button>		

Feedback Looking for language selection? Find it in the new Unified Settings [Unified Settings](#)

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Employee Management for Deployment

The screenshot shows the 'Create a web app' wizard in the AWS Elastic Beanstalk console. The left sidebar lists 'Environments', 'Applications', and 'Change history'. The main area has tabs for 'Application information' and 'Application tags'. In 'Application information', the application name is set to 'springboot-deployment-course6'. In 'Application tags', there is a section for adding tags with fields for 'Key' and 'Value', and a button 'Add tag'. A note says 'Up to 100 Unicode characters, not including forward slash (/).'. At the bottom, it says '50 remaining'. The browser tab bar shows multiple open tabs related to AWS services and deployment.

Feedback Looking for language selection? Find it in the new Unified Settings [\[link\]](#)

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Windows Type here to search

28°C 16:51 16-05-2022

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Employee Management for Deployment

The screenshot shows the 'Create application' wizard in the AWS Elastic Beanstalk console. The left sidebar lists 'Environments', 'Applications', and 'Change history'. The main area has tabs for 'Add tag' (with 50 remaining), 'Platform' (selected), and 'Application code'. Under 'Platform', the dropdowns show 'Java' for Platform, 'Corretto 11 running on 64bit Amazon Linux 2' for Platform branch, and '3.2.14 (Recommended)' for Platform version. Under 'Application code', the 'Sample application' radio button is selected, with a note: 'Get started right away with sample code.' Below it, the 'Upload your code' option is available with the note: 'Upload a source bundle from your computer or copy one from Amazon S3.' At the bottom are 'Cancel', 'Configure more options', and a prominent orange 'Create application' button. The browser tab bar shows multiple open tabs related to AWS services.

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The screenshot shows the AWS Elastic Beanstalk application deployment interface. The left sidebar lists 'Environments', 'Applications', and 'Change history'. The main area is titled 'Application code' and shows two options: 'Sample application' (radio button unselected) and 'Upload your code' (radio button selected). Below this is the 'Source code origin' section, which includes a 'Version label' input field containing 'springboot-deployment-course6-source', a 'Source code origin' dropdown set to 'Local file', a 'Choose file' button, and a message 'No file uploaded'. At the bottom is the 'Application code tags' section, which is currently collapsed. The browser's address bar shows the URL: us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/gettingStarted. The bottom navigation bar includes links for Feedback, Unified Settings, © 2022, Amazon Internet Services Private Ltd., Privacy, Terms, and Cookie preferences. The taskbar shows various pinned applications like File Explorer, Firefox, Microsoft Teams, Word, and Google Chrome.

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Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console with the 'Getting Started' wizard open. The left sidebar shows 'Environments', 'Applications', and 'Change history'. The main area has two sections: 'Application code' and 'Source code origin'. In 'Application code', the 'Upload your code' option is selected. In 'Source code origin', a version label 'springboot-deployment-course6-source' is entered, and a local file is chosen for upload. A success message indicates the file was uploaded successfully. The bottom navigation bar includes links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with system status information like temperature and date.

Dashboard | Home Page | (19) Spring Boot AWS Dep... | Elastic Beanstalk Managem... | Sooraj678/CI-CD-Deploym... | what to choose anywhere i... | +

us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/gettingStarted

Apps D-Link Project-Tuto Hdfc-LIC Links Spring Jenkins Data AWS Data STS Issues

aws Services Search for services, features, blogs, docs, and more [Alt+S]

Elastic Beanstalk Environments Applications Change history

Application code

Sample application Get started right away with sample code.

Upload your code Upload a source bundle from your computer or copy one from Amazon S3.

Source code origin

Version label Unique name for this version of your application code.
springboot-deployment-course6-source

Source code origin Maximum size 512 MB

Local file

Public S3 URL

Choose file

File name : employee-management-test-web-app-0.0.1-SNAPSHOT...
File successfully uploaded

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences

Type here to search

28°C 16:55 16-05-2022

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk interface for adding a database. A blue banner at the top states: "AWS Graviton now supported. AWS Graviton, an arm64-based processor, can offer up to 40% better price performance over the comparable x86 processor. To upgrade to an arm64 instance type, choose it in the 'Capacity' settings in 'Additional configuration.'". The main section is titled "Add database" and includes a sub-instruction: "Add an RDS SQL database integrated with your environment. [Learn more](#)". Below this, there's a "Restore a snapshot - optional" section with a note: "Restore an existing snapshot from a previously used database." A dropdown menu for "Snapshot" shows "None" selected. The next section is "Database settings" with the instruction: "Choose an engine and instance type for your environment's database." A dropdown menu for "Engine" has "mysql" selected. At the bottom of the page, there are links for "Feedback", "Unified Settings", "Privacy", "Terms", and "Cookie preferences". The status bar at the bottom right shows the date as "16-05-2022" and the time as "16:57".

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console with the 'Getting Started' wizard open. The left sidebar lists 'Environments', 'Applications', and 'Change history'. The main panel is titled 'Choose an engine and instance type for your environment's database.' It includes fields for 'Engine' (set to 'mysql'), 'Engine version' (set to '8.0.28'), 'Instance class' (set to 'db.t2.micro'), 'Storage' (set to '5'), 'Username' (empty), 'Password' (empty), and 'Availability' (set to 'Low (one AZ)'). The bottom navigation bar includes links for 'Feedback', 'Unified Settings', 'Privacy', 'Terms', and 'Cookie preferences', along with system status icons for temperature, battery, signal, and date/time.

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console with the URL us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/gettingStarted. The interface is titled "Elastic Beanstalk". On the left, there's a sidebar with links: "Environments", "Applications", and "Change history". The main area contains configuration fields:

- Storage:** Choose a number between 5 GB and 1024 GB. The value is set to 5.
- Username:** An empty text input field.
- Password:** An empty text input field.
- Availability:** A dropdown menu set to "Low (one AZ)".
- Database deletion policy:** A section describing what happens when a database is decoupled or terminated. It includes three options:
 - Create snapshot** (selected): Describes saving a snapshot and then deleting it, with restore and standalone database creation options.
 - Retain**: Describes the database remaining available and operational.
 - Delete**: Describes terminating the database entirely.

At the bottom right of the configuration panel are "Cancel" and "Save" buttons. The status bar at the bottom of the browser window shows "Feedback", "Unified Settings", "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", "Privacy", "Terms", "Cookie preferences", a search bar, and system icons for weather, battery, and network.

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk configuration dialog. The left sidebar lists 'Environments', 'Applications', and 'Change history'. The main area has fields for 'Username' (root) and 'Password' (redacted). Under 'Availability', 'Low (one AZ)' is selected. The 'Database deletion policy' section contains three options: 'Create snapshot' (selected), 'Retain', and 'Delete'. A note states: 'This policy applies when you decouple a database or terminate the environment coupled to it.' Below the policy are three radio buttons: 'Create snapshot' (selected), 'Retain', and 'Delete'. The 'Save' button is highlighted in orange at the bottom right.

Feedback Looking for language selection? Find it in the new Unified Settings

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28°C 16:57 16-05-2022

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console interface. The top navigation bar includes tabs for Dashboard, Home Page, (19) Spring Boot AWS Dep..., Elastic Beanstalk Management, Sooraj678/CI-CD-Deployment, what to choose anywhere, and a plus sign for creating new resources. Below the navigation is a toolbar with icons for Apps, D-Link, Project-Tuto, Hdfc-LIC, Links, Spring, Jenkins Data, AWS Data, and STS Issues. The main content area is titled "Elastic Beanstalk" and displays three sections: Network, Database, and Tags. The Network section indicates that the environment is not part of a VPC. The Database section shows settings for MySQL engine, db.t2.micro instance class, 5 GB storage, and disabled Multi-AZ. The Tags section lists "none". At the bottom right are buttons for Cancel, Previous, and Create app (which is highlighted in orange).



Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console with a banner about AWS Graviton support. The left sidebar shows the environment 'springboot-deployment-course6' and the current environment 'Springbootdeploymentcourse6-env'. The main pane displays a progress message 'Creating Springbootdeploymentcourse6-env' and a log of deployment steps:

```
5:10pm Created RDS database named: aap9keiai9mwtq
4:59pm Creating RDS database named: aap9keiai9mwtq. This may take a few minutes.
4:59pm Created EIP: 34.231.168.17
4:59pm Created security group named: awseb-e-m35s3mcgej-stack-AWSEBSecurityGroup-1M4C9CIUNOL5X
4:59pm Environment health has transitioned to Pending. Initialization in progress (running for 4 seconds). There are no instances.
4:58pm Using elasticbeanstalk-us-east-1-814924242039 as Amazon S3 storage bucket for environment data.
4:58pm createEnvironment is starting.
```

At the bottom, there is a Windows taskbar with a search bar, pinned icons for File Explorer, Edge, Teams, Word, and others, and system status indicators.

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console with a deployment in progress. The left sidebar shows the navigation path: Dashboard > Services > Elastic Beanstalk > Environments > springboot-deployment-course6 > Springbootdeploymentcourse6-env. A modal window titled "Creating Springbootdeploymentcourse6-env" displays deployment logs. The logs show the following sequence of events:

```
5:12pm Instance deployment completed successfully.  
5:12pm Instance deployment successfully generated a 'Profile'.  
5:12pm Instance deployment successfully detected a JAR file in your source bundle.  
5:11pm Waiting for EC2 instances to launch. This may take a few minutes.  
5:10pm Created RDS database named:  
aap9keiai9mwtq  
4:59pm Creating RDS database named:  
aap9keiai9mwtq. This may take a few minutes.  
4:59pm Created EIP: 34.231.168.17  
4:59pm Created security group named:  
awseb-e-m35s3mcegj-stack-AWSEBSecurityGroup-1M4C9CJNOL5X  
4:59pm Environment health has transitioned to Pending. Initialization in progress (running for 4 seconds). There are no instances.  
4:58pm Using elasticbeanstalk-us-east-1-814924242039 as Amazon S3 storage bucket for environment data.  
4:58pm createEnvironment is starting.
```

At the bottom of the screen, the Windows taskbar is visible with various pinned icons and the system tray showing the date and time as 16-05-2022, 17:12.

Project Specification Document

Employee Management for Deployment

The screenshot shows the AWS Elastic Beanstalk console interface. The left sidebar shows the navigation path: Elastic Beanstalk > Environments > Springbootdeploymentcourse6-env. The main content area displays the environment details for 'Springbootdeploymentcourse6-env'. Key information includes:

- Health:** Ok
- Running version:** springboot-deployment-course6-source
- Platform:** Corretto 11 running on 64bit Amazon Linux 2/3.2.14
- Recent events:** No recent events listed.

A modal window titled 'AWS Graviton now supported' is open, providing information about the new processor.

Solution Overview of Employee Management Pvt. Ltd. && Its Components and Interfaces in System.

Project Requirement

This is the Web Application for Employee Management System: And User should be able to:

- Get All the Employees
 - Add a new Employee
 - Update an Employee
 - Delete an Employee
-

Project Specification Document

Employee Management for Deployment

Employee Management System

Add Data For New Employee

Employees List View:

Employee First Name	Employee Last Name	Employee Email	Mobile Number	Actions
Sooraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>
A	Singh	Singh@gmail.com	123456	<button>Update</button> <button>Delete</button>

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Project Specification Document

Employee Management for Deployment

Assessment | Inbox - suraj | (19) Spring | Springboot | Home Page | Home Page | Sooraj678/ | what to cho | Home Page | Add Emplo | + | Not secure | springbootdeploymentcourse6-env.eba-muf4skgf.us-east-1.elasticbeanstalk.com/showNewEmployeeForm | Apps | D-Link | Project-Tuto | Hdfc-LIC | Links | Spring | Jenkins Data | AWS Data | STS Issues

Employee Management System

Employee Management System

Saving Employee Data

Please Enter Employee First Name..!!

Please Enter Employee Last Name..!!

Please Enter Employee Email...!!

Please Enter Employee Mobile Number..!!

[Save Employee Data](#) [Back to Employee List](#)

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Project Specification Document

Employee Management for Deployment

Employee Management System

Employee Management System

Saving Employee Data

Suraj

Singh

surajsingh9090@gmail.com

9340691082

[Save Employee Data](#) [Back to Employee List](#)

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Apps D-Link Project-Tuto Hdfc-LIC Links Spring Jenkins Data AWS Data STS Issues

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Project Specification Document

Employee Management for Deployment

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Employee Management for Deployment". The page content is titled "Employee Management System". A button labeled "Add Data For New Employee" is visible. Below it, a purple banner reads "Employees List View:". A table displays three employee entries:

Employee First Name	Employee Last Name	Employee Email	Mobile Number	Actions
Sooraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>
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Suraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>

At the bottom, a grey footer area contains the text "Featured By Suraj Singh", "© 2022 Copyright:", and the email "Suraj-Singh@Info.com".



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Please Enter Employee First Name..!!

Please Enter Employee Last Name..!!

Please Enter Employee Email...!!

Please Enter Employee Mobile Number..!!

[Save Employee Data](#) [Back to Employee List](#)

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Apps D-Link Project-Tuto Hdfc-LIC Links Spring Jenkins Data AWS Data STS Issues

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Project Specification Document

Employee Management for Deployment

The screenshot shows a web browser window with multiple tabs open at the top. The main content area displays the 'Employee Management System'. A blue header bar contains the system's name. Below it, a purple bar says 'Employees List View:'. A green button labeled 'Add Data For New Employee' is positioned above the table. The table has columns for Employee First Name, Employee Last Name, Employee Email, Mobile Number, and Actions (with 'Update' and 'Delete' buttons). Three rows of data are listed: 1. Sooraj, Singh, surajsingh9090@gmail.com, 9340691082. 2. A, Singh, Singh@gmail.com, 123456. 3. Suraj, Singh, surajsingh9090@gmail.com, 9340691082. At the bottom, a grey footer contains the text 'Featured By Suraj Singh', '© 2022 Copyright:', and an email address 'Suraj-Singh@Info.com'.

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Project Specification Document

Employee Management for Deployment

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "Employee Management System". The main content area displays a form for updating employee data. The form fields are as follows:

- First Name: A
- Last Name: Singh
- Email: Singh@gmail.com
- Phone Number: 123456

Below the form are two buttons: "Update Employee Data" and "Back to Employee List". At the bottom of the page, there is a footer section with the text "Featured By Suraj Singh" and "© 2022 Copyright: Suraj-Singh@Info.com".



Project Specification Document

Employee Management for Deployment

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "Employee Management System". The main content area displays a form for updating employee data. The form fields are as follows:

- First Name: A
- Last Name: Singh
- Email: Singh@gmail.com
- Phone Number: 1234568752

Below the form are two buttons: "Update Employee Data" and "Back to Employee List".

At the bottom of the page, there is a section titled "Featured By Suraj Singh" and copyright information:

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Project Specification Document

Employee Management for Deployment

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled "Employee Management System" and displays a form for updating employee data. The form fields are as follows:

- First Name: A
- Last Name: Singh
- Email: Singh@gmail.com
- Phone Number: 1234568752

Below the form are two buttons: "Update Employee Data" (green background) and "Back to Employee List" (white background). At the bottom of the page, there is a "Featured By Suraj Singh" section and a copyright notice.

Employee Management System

Updating Employee Data

A

Singh

Singh@gmail.com

1234568752

Update Employee Data

Back to Employee List

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Employee Management for Deployment

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Employee Management for Deployment

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Suraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>



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Sooraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>
Suraj	Singh	surajsingh9090@gmail.com	9340691082	<button>Update</button> <button>Delete</button>

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DataBase Details

Provides the information about Database.

This Application contains only one table that is Employees in which id is Primary Key and Autogenerated.

Project Specification Document

MySQL Workbench

EmployeeManagement-AWS

File Edit View Query Database Server Tools Scripting Help

Navigator: employees

Query 1 employees

```
1 •  SELECT * FROM `employee-management`.employees;
```

SCHEMAS

employee-management

Tables

employees

Columns

- id
- email
- first_name
- last_name
- mobile_number

Indexes

PRIMARY

Foreign Keys

Triggers

Views

Stored Procedures

Functions

sys

Administration Schemas

Information

Table: employees

Columns:

id	bigint AI PK			
email	varchar(255)			
first_name	varchar(255)			
last_name	varchar(255)			
mobile_number	varchar(255)			

Result Grid

	id	email	first_name	last_name	mobile_number
▶	1	surajsingh9090@gmail.com	Sooraj	Singh	9340691082
	3	Singh@gmail.com	A	Singh	123456
*	HULL	HULL	HULL	HULL	HULL

employees 1 employees 2 employees 3

Action Output

#	Time	Action	Message
3	02:34:33	SELECT * FROM `employee-management`.employees LIMIT 0, 1000	2 row(s) returned
4	02:34:58	SELECT * FROM `employee-management`.employees LIMIT 0, 1000	2 row(s) returned
5	02:35:00	SELECT * FROM `employee-management`.employees LIMIT 0, 1000	2 row(s) returned

Object Info Session

Employee Management for Deployment

Link of Project after Deployment of Project

Provides the information about link of Project.

<http://springbootdeploymentcourse6-env.eba-muf4skgf.us-east-1.elasticbeanstalk.com/>

GitHub Link

Provides the information where the project is located.

<https://github.com/Sooraj678/CI-CD-Deployment-for-Springboot-WebApp>