

Questions & Answers for Senior Pimcore Developer Certification

[Answers for Junior Pimcore Developer Exam are HERE](#)

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01 Working with Documents Advanced

Question 1: What are mandatory options for renderlets?

- ☐ classname
- ☒ controller
- ☐ height
- ☐ reload

Question 3: Which approaches of Web2Print can be implemented with Pimcore?

- ☒ Fully automated print processes
- ☒ Creative process
- ☒ Semi automated print process.
- ☐ Pimcore cannot support web2print processes.

Question 5: What PDF renderers can be used with Pimcore Print Documents (starting with Pimcore 11)?

- ☒ PDFReactor
- ☐ TCPDF
- ☒ Gotenberg
- ☒ Chromium
- ☐ wkhtmltopdf
- ☐ Pimcore built-in PDF renderer

Question 2: What content can be dragged onto renderlets?

- ☒ Folders of Assets, Documents and DataObjects
- ☒ DataObjects
- ☒ Assets
- ☒ Documents
- ☐ Any file from file system.

Question 4: Which statements are correct concerning Print Containers?

- ☐ Can contain content like normal documents.
- ☒ Can be used to create structure like chapters or combine whole catalogs.
- ☒ Can be used to create PDFs that combine all content of all children documents.
- ☐ Cannot be nested multiple times.

Question 6: What steps are necessary to use Pimcore Documents

- ☒ Require pimcore/web-to-print-bundle via composer.
- ☒ Activate PimcoreWebToPrintBundle in config/bundles.php.
- ☒ Run bin/console pimcore:bundle:install PimcoreWebToPrintBundle.
- ☐ No additional steps are necessary, can be used out-of-the-box.

In 2022 it was:

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02 Working with Objects Advanced:

Question 1: What is the preferred approach for managing localized data in data objects?

- Multiple languages within one data object by manually creating attributes for each language.
- Localized data cannot be managed with data objects.
- One data object per language.
- Multiple languages within one data object by using localized fields.

Question 2: What data object attributes are localized?

- All attributes are localized automatically.
- All attributes within localized fields.
- Attributes cannot be localized.

Question 3: How to configure available languages for localization?

- Languages can be configured and modified on the fly system-wide in system settings.
- Languages can be configured during Pimcore install and not be changed anymore later on.
- Available languages can be configured on object level.
- There is no language setting available.

Question 4: How language is determined when calling getters on data objects?

- By random.
- By method parameter.
- By current language of request document.
- By browser language.
- By system language of operating system.

Question 5: What are possible ways for attaching additional information to relations?

- Use a field collection with many-to-one relation and additional data attributes.
- Use simple many-to-many relation type.
- Use advanced many-to-many relation type.
- Use block with many-to-one relation and additional data attributes.
- This requirement cannot be modelled with Pimcore.

Question 6: What data types can be used to repeat a set of attributes within a data object?

- Blocks
- ManyToMany Relation
- Object Bricks
- Fieldcollections
- Classification Store

Question 7: Which data types do support data inheritance?

- Blocks
- Fieldcollections
- Object Bricks
- Structured Table
- Input

Question 8: Which datatypes get serialized to the database (and not stored in the Pimcore typical column-wise way)?

- Objectbricks
- Fieldcollections
- Block
- Table
- Localized Fields

Question 9: What statements concerning fieldcollections and blocks are correct?

- Fieldcollections are stored serialized in database.
- Block definitions can be reused in multiple class definitions.
- Fieldcollection definitions can be reused in multiple class definitions.
- Blocks do support data inheritance.
- Fieldcollections are stored Pimcore typical column wise in database.

Question 10: What is the preferred way of modelling category specific attributes?

Fieldcollections

- Classification Store
- Object Bricks
- Blocks
- Localized Fields
- Structured Table

Question 11: What statements concerning object bricks and classification store are correct?

- Object bricks support data inheritance.
- Object bricks can be added multiple times to the same data object field.
- Classification store and object bricks are designed to handle thousands of different categories and attributes.
- Classification store keys represent the attributes that can be managed.
- Classification store supports all data types of data objects.

Question 12: What ways of encrypting data does Pimcore provide?

- Enable data encryption on class definition level.
- There is no out-of-the-box option for encrypting data.
- Each data type has option to activate encryption.
- Use encrypted fields data type.

Question 13: What are possible ways to create indices on database?

- Use composite indices of class definitions.
- Manually create indices directly on database.
- Use indexed option of class attributes.
- All indices are created automatically by Pimcore.
- Pimcore does not need any database indices.

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- ☒ Use indexed option of class attributes.
- ☒ Use composite indices of class definitions.
- ☐ Manually create indices directly on database.
- ☐ Pimcore does not need any database indices.

03 Extending Data Objects

Question 1: Possible ways of adding additional functionality to Pimcore data object classes are?

- Manually modify generated PHP API
- Use Parent PHP Class
- Use Traits
- Use class_overrides functionality
- Is not possible at all.

Question 2: What classes can be overridden via class_override functionality?

- Pimcore\Model\Asset\Image
- Pimcore\Model\Document
- Pimcore\Model\Asset
- Pimcore\Model\Document\Page
- Pimcore\Model\DataObject\News

Question 3: What requirements does a configured Parent PHP Class have?

- It has to extend Pimcore\Model\DataObject\Concrete directly.
- It has to have the same name.
- It has to extend Pimcore\Model\DataObject\Concrete at some point in hierarchy.
- It has to implement a certain interface.

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04 Customize Admin User Interface - pimcore senior exam - Course

Question 1: Custom Layouts can be used to...

- Specify different views on data object data.
- Specify different views on Pimcore documents.
- Create field based permissions for sensitive data of data objects.
- Show different views of data objects to different user groups

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Exam for Course 'Customize Admin User Interface'

Certificate Pimcore Developer Senior / Course Customize Admin User Interface

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- ☐ Specify different views on Pimcore documents.
- ☒ Specify different views on data object data.
- ☒ Show different views of data objects to different user groups.

Question 3: AdminStyle can influence ...

- ☒ Custom Icons.
- ☐ Permissions of data objects.
- ☒ Custom Tooltips.
- ☒ CSS Classes of data objects.

Question 2: What elements can be controlled by user permissions?

- ☒ Custom Layouts.
- ☐ Custom views directly.
- ☒ Perspectives.
- ☐ Custom Object Icons.

05 Caching

Question 1: What is the first level of the core cache?

- ☒ In-Process Registry.
- ☐ Cache Backend.
- ☐ Database.
- ☐ Filesystem.

Question 3: How Pimcore invalidates core cache entries?

- ☒ All dependent elements are cleared via tags when an element is updated.
- ☐ Never, needs to be done manually.
- ☐ Automatically with artificial intelligence.
- ☐ All cache is cleared when an element is updated.

Question 5: What information is part of output cache key?

- ☒ Parameters
- ☒ URL
- ☐ Screen resolution

Question 2: When does caching take place?

- ☐ Only manually.
- ☒ Only after response is sent back to browser.
- ☐ Every time an element is loaded.

Question 4: How Pimcore invalidates output cache entries?

- ☐ Never, needs to be done manually.
- ☒ All entries are cleared once their lifetime is over.
- ☒ All cache is cleared when an element is updated (if no lifetime is set).
- ☐ All dependent elements are cleared via tags when an element is updated.

Question 6: How to find out why output cache is deactivated for a request?

- ☐ Lucky guess.
- ☐ Output cache will be never deactivated for a request once activated in settings.
- ☒ Via response headers.
- ☐ Via debugger.

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06 Debugging Pimcore

Get some tips for debugging Pimcore.

Question 1: What information is stored in usage log?

- ☐ User information of all frontend requests.
- ☒ All requests done in Pimcore admin interface.
- ☐ Usage statistics about disk and memory usage.
- ☐ How often this Pimcore instance is used.

Question 2: What statements are correct?

- ☒ Usage log can be deactivated via `disable_usage_statistics` in `config/config.yaml`
- ☒ There is a magic parameter to deactivate cache for a request completely.
- ☐ For Pimcore admin backend, always unminified java script files are delivered for better debugging.
- ☒ Server-side debugging with XDebug is possible.

07 Extending Pimcore

See how to extend Pimcore with event listeners, custom bundles and a few other options.

Question 1: When `/config/pimcore/startup.php` is loaded?

- Just before the kernel is loaded.
- Never.
- First thing when process is started.
- After kernel is loaded.

Question 2: Event dispatching is done via ...

- ... there are no events in Pimcore.
- ... symfony event dispatcher.
- ... Pimcore specific event dispatcher.
- ... Zend event dispatcher.

Question 3: Pimcore Bundles are based on ...

- ... a Pimcore specific bundle system.
- ... Symfony bundles.
- ... Zend modules.
- There are no Pimcore Bundles.

Question 4: What are special characteristics unique to Pimcore bundles compared to Symfony bundles?

- Pimcore bundles show up in the extension manager and can be enabled/disabled from there.
- In the extension manager, you're able to trigger installation/uninstallation of bundles.
- Pimcore bundles add methods to natively register JS and CSS files to be loaded with the admin interface and in editmode.
- Pimcore bundles cannot be installed via composer.
- Pimcore bundles can define new services, routes and can hook into the event system.

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08 E-Commerce Framework

Get a quick overview of the architecture and modules of the E-Commerce Framework, and see how to use it in your projects.

Question 1: Modules and Functionality of the Customer Management Framework

- ☐ Full-featured CRM functionality.
- ☒ Management of Customer Activities.
- ☒ Management of Customer Data.
- ☒ Duplicates detection.
- ☐ Full-featured out-of-the-box customer registration process.
- ☒ Single Sign On with Social Logins

Question 3: Where to get the Customer Management Framework from?

- ☒ From a separate github repository.
- ☐ It ships with Pimcore core.
- ☐ From bitbucket.
- ☐ Not available as open source.

Question 5: What components are part of the Customer Save Manager?

- ☒ Automatic Object Naming Scheme
- ☒ Customer Save Validator
- ☒ Customer Save Handlers
- ☐ Customer Provider

Question 7: How is the assignment of segments to customers stored?

- ☒ Via data object relations.
- ☐ Via Pimcore properties.
- ☐ Via text fields.
- ☐ Via activities.

Question 9: When segment building is executed?

- ☒ Synchronously on customer save for segment builders with executeOnCustomerSave=true.
- ☐ Synchronously on customer save for all segment builders.
- ☒ Asynchronously when customer is in segment building queue.
- ☐ During Pimcore maintenance.

Question 11: What information can be synchronized with newsletter providers?

- ☒ Mail Templates
- ☒ Customer Data
- ☒ Customer Segments
- ☐ Customer Versions

Question 2: What data is primarily managed with Pimcore Data Objects?

- ☐ Tracking Information
- ☒ Customers
- ☒ Customer Segments
- ☐ Activities

Question 4: What is the preferred way for creating and loading customers via Code?

- ☐ Using standard Pimcore PHP API.
- ☒ Using Customer Provider.
- ☐ Using custom code for writing to database.
- ☐ Just work with customers in Pimcore backend interface.

Question 6: How Customer Activities are stored?

- ☐ As Pimcore data objects.
- ☒ Activity store implementation decides how activities are stored.
- ☐ Directly on file system.
- ☐ Via doctrine entities to a separate database.

Question 8: What are Segment Builders responsible for?

- ☒ Calculating segments for customers.
- ☐ Assigning and storing activities.
- ☐ Provide lists of customers that belong to a segment.

Question 10: What are the three main parts of customer automation rules?

- ☐ Customer Segments
- ☐ Customers
- ☐ Customer Activities
- ☒ Actions
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09 Customer Management Framework

Get an overview of features and architecture of CMF and see how to get started and work with it.

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10 Targeting and Personalization

See how manual and automatic personalization works in Pimcore and how to integrate with Customer Management Framework.

Question 1: What are the four mandatory steps to setup personalization with Pimcore?

- ☒ Setup Profiling Rules.
- ☒ Define Target Groups.
- ☒ Create Personalized Content.
- ☐ Manually deactivate Output Cache.
- ☒ Deliver Personalized Content.
- ☐ Create Customer Login.

Question 3: What do profiling rules do?

- ☒ Define what a visitor needs to do (or have) to be assigned to a target group.
- ☐ Define what content applies to what target group.
- ☐ Nothing.
- ☐ Deliver personalized content.

Question 5: Where is targeting information stored by default?

- ☒ JWT Cookie
- ☐ Local Storage
- ☐ JSON Cookie
- ☐ Session

Question 7: What are possible ways to use tracked segments?

- ☐ Tracked segments cannot be used.
- ☒ Store tracked segments in customer objects.
- ☒ Calculate target groups based on tracked segments.
- ☒ Create full automatic personalization based on tracked segments.

Question 2: What does apply for target groups?

- ☒ Target groups are simple entities that are used to reference to.
- ☐ Target groups have extensive condition definitions attached.
- ☐ There are no target groups in Pimcore.
- ☒ Pimcore documents can be personalized for target groups.

Question 4: How can targeting information be accessed in controller actions?

- ☐ By calling getVisitorInfo on Pimcore FrontendController.
- ☒ By injecting VisitorInfoStorageInterface into controller action.
- ☐ By accessing cookie information in request.
- ☐ Targeting information cannot be accessed server-side.
- ☐ By injecting VisitorInfo into controller action.

Question 6: When are segments tracked by Pimcore?

- ☒ When profiling rules with TrackSegment actions are configured.
- ☒ Always when opening Pimcore documents tagged with segments.
- ☐ Always when opening the detail pages of data objects tagged with segments.
- ☒ When SegmentTracker is used by the developer in the custom code.

11 [Workflows](#) Exam for Course 'Workflows'

Question 1: On what elements workflows can be configured?

- Assets
- Documents
- Data Objects
- System and website settings
- Glossary entries
- Shared translations

Question 2: What statements concerning workflows are correct?

- Pimcore workflow engine is based on symfony workflow module.
- Only one workflow per element is supported.
- Workflow transitions only can be executed via Pimcore admin interface.
- Pimcore workflow fires events to customize and extend functionality.
- There is a workflow audit trail in elements' notes & events.

Question 3: What are Marking Stores for?

- They mark elements in Pimcore Backend.
- They define which transitions can be executed.
- They define how place information for workflow elements is stored.
- They provide a list of all available workflow places of an element.

Question 4: What workflow type allows multiple states at the same time?

- Statemachine
- Workflow
- Multi-Workflow
- Not possible at all.

Question 5: How can be influenced what transitions are possible?

- Using guard expression in workflow configuration.
- Possible transitions cannot be influenced at all.
- Using supports strategy.
- Using guard events and implement event listeners.

- Using special marking stores.

Question 6: What statements concerning Workflow Designer are correct?

- Symfony container needs to be rebuilt after workflow configuration changes.
- Workflow Designer is part of Enterprise Subscription of Pimcore.
- Workflow Designer is part of Open Source distribution of Pimcore.
- Workflow designer provides a visual designer to create workflow definitions.

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- ☒ Workflow Designer is part of Enterprise Subscription of Pimcore.
- ☐ Workflow Designer is part of Open Source distribution of Pimcore.
- ☒ Workflow designer provides a visual designer to create workflow definitions.

12 Reporting

Question 1: Which built-in Pimcore features can be used for reporting?

- ☒ Dynamic Text Labels
- ☒ Custom Reports
- ☐ Object Bricks
- ☒ Calculated Values
- ☒ Preview I-Frame Panel
- ☐ BI Module
- ☐ Notification System
- ☐ Pimcore Assets

Question 2: What reporting concepts can be implemented with Pimcore?

- ☒ Inline Reporting.
- ☒ Custom Reports.
- ☒ Reporting Portals.
- ☒ I-Frame Reports.
- ☐ Native BI Module Reports.
- ☐ Pimcore does not support reporting.

13 Deployment

Question 1: Which statements concerning deployment apply to Pimcore?

- ☒ It is recommended to use VCS systems for Pimcore application development.
- ☒ Environments (dev, stage, prod, ...) are supported for all core configuration files.
- ☐ There is one specific way for deploying Pimcore applications.
- ☐ Pimcore recommends to do content deployment.
- ☒ Deployment Tools like `pimcore:deployment:classes-rebuild` can be utilized for custom deployment scenarios.

14 Datahub

Learn how to install, configure and use Pimcore Datahub with GraphQL endpoint.

Question 1: What are the objectives of Pimcore Data Hub?

- ☒ Consolidate interfaces to different channels like GraphQL, CSV/XLS files, REST APIs etc.
- ☒ Provide easy to configure interface layer for data delivery and consumption.
- ☐ Create PDF deliverables for printing.
- ☒ Provide a central GUI to transform and prepare data for APIs.

Question 3: Which schema definitions can be defined in API config?

- ☒ Query Schema, for fetching the data from Pimcore.
- ☒ Mutation Schema, for adding or updating the data into Pimcore.
- ☒ Schema for generic types, e.g. Documents, Assets & Folders.
- ☐ Schema for Website settings and Translations.

Question 2: Data Hub bundle is supported on which Pimcore versions?

- ☐ Pimcore versions > 6
- ☐ Any Pimcore version.
- ☒ Pimcore versions >= 5.7
- ☐ Pimcore versions > 5

Question 4: What are possible ways to fetch image thumbnails from Data hub API query?

- ☒ Using Transformers for image attribute in the schema definition.
- ☐ By just requesting fullpath of image attribute.
- ☒ By providing thumbnail parameter on image attribute fullpath in the query.
- ☐ By using GraphQL inline fragment.

15 [What's new in Pimcore 6.7](#)

Learn about the most important changes and improvements of Pimcore 6.7

Question 1: What are relevant upgrade notes for Pimcore 6.7?

- ☒ [Ecommerce] Deprecated FactFinder integration.
- ☒ [Ecommerce][IndexService] Elastic Search worker does not use mockup cache anymore.
- ☒ Rules regarding default values in combination with inheritance enabled have been clarified.
- ☒ Saving unpublished data objects via API will not throw Validation exceptions anymore.
- ☒ Calling
Pimcore\Model\DataObject\ClassDefinition\Data::isEqual() is deprecated.
- ☒ ObjectBrickGetter operator in grids is deprecated.
- ☐ Programming language of Pimcore API switched to Java.

16 [What's new in Pimcore 6.8](#)

Learn about the most important changes and improvements of Pimcore 6.8

Question 1: What are relevant upgrade notes for Pimcore 6.8?

- ☐ Programming language of Pimcore API switched to C#.
- ☒ Unify naming of elements and tags in documents to editables
- ☒ PhpEngine, Php templates & Template Helpers are deprecated.
- ☒ Tag names need be unique in the same hierarchy level now.
- ☒ Areabrick configurations with the all new Editable Dialog Box.
- ☒ Support for Twig in Emails and Web2Print Documents

17 [What's new in Pimcore 6.9](#)

Learn about the most important changes and improvements of Pimcore 6.9

Question 1: What are relevant upgrade notes for Pimcore 6.9?

- Additional templating helper were introduced.
- Normalize/Denormalize will replace marshal/unmarshal of data object field definitions.
- Geopoint data types were removed from data objects.
- Many to one relations are now allowed in reverse relations.
- New settings store for simple key value data was introduced.
- Elasticsearch 7 support was introduced.

Question 1: What are relevant upgrade notes for Pimcore 6.9?

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- ☒ New settings store for simple key value data was introduced.
- ☒ Elasticsearch 7 support was introduced.

18 Pimcore X Highlights

Learn about the most important changes and improvements of Pimcore X.

Question 1: What are some relevant upgrade notes for Pimcore X?

- ☒ Data Object Type Declarations will be generated by default.
- ☒ Added auto save feature for Documents & DataObjects
- ☐ [Ecommerce] FactFinder integration upgraded to latest version
- ☐ Pimcore X will support Php versions ≥ 7.3 .
- ☒ [Areablocks] It is possible to reload on add/remove configurable per brick.
- ☒ PhpEngine, Php templates & Template Helpers are removed.
- ☒ Pimcore X integrates flysystem library for content files storage like assets, thumbnails, etc.

19 [What's new in Pimcore 10.1](#)

Learn about the most important changes and improvements of Pimcore 10.1 (X.1).

Question 1: What are relevant upgrade notes for Pimcore 10.1?

- Be aware of the additional interfaces for data-types when implementing custom data types.
- URLSlug validation is less aggressive to allow all URI/URL allowed characters.
- ValidationException is now thrown in case same item got assigned multiple times to a relational field.
- Use Password Hasher Factory & instead of deprecated Password Encoder Factory
- Individual symfony/* packages are now used in composer.json instead of symfony/symfony
- Cookie SameSite is strict by default now.
- Pimcore Glossary Tag is deprecated, use glossary filter instead.

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- ☒ Pimcore Glossary Tag is deprecated, use glossary filter instead.

20 [What's new in Pimcore 10.2](#)

Learn about the most important changes and improvements of Pimcore 10.2 (X.2).

Question 1: What are relevant upgrade notes for Pimcore 10.2?

- Check Pimcore maintenance cron job and setup symfony messenger.
- Plan to migrate your configurations to yaml files or settings store.
- Pimcore now automatically supports AVIF image format for thumbnails using auto format. If you don't want it, you can disable it.

Question 1: What are relevant upgrade notes for Pimcore 10.2?

- ☒ Check Pimcore maintenance cron job and setup symfony messenger.
- ☒ Pimcore now automatically supports AVIF image format for thumbnails using auto format. If you don't want it, you can disable it.
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21 What's new in Pimcore 10.3

Learn about the most important changes and improvements of Pimcore 10.3 (X.3).

Question 1: What are relevant upgrade notes for Pimcore 10.3?

- Use additional interfaces for editable methods `etDataEditMode()`, `rewritelds()` & `load()`.
- Return type added to safe methods, which are final & marked as internal.
- Make sure that symfony messenger queue is empty before you start the updates.
- Return type hints are added as comments on the methods which are extendable and phpdocs are updated.
- Default values now get saved to versions -> Restoring a version also restores the default values

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22 [What's new in Pimcore 10.4](#)

Learn about the most important changes and improvements of Pimcore 10.4 (X.4).

Question 1: What are relevant upgrade notes for Pimcore 10.4?

- ☒ Optimize Image messages are now routed to different queue instead of pimcore_core
- ☒ The folder structure for storing thumbnails changed.
- ☒ [Object bricks] A call to the object brick's getter method no longer returns object bricks marked for deletion.
- ☐ Symfony 5 support is dropped.

What's new in Pimcore 10.5

- Question 1: What are relevant upgrade notes for Pimcore 10.5?
- [Backend search] key and index columns have been added to the search index. Run `./bin/console pimcore:search-backend-reindex` to reindex.
- [Security] It is recommended to use new Authenticator based system for authentication/authorization.
- [Application Logger] File Objects are now stored in the flysystem.
- Symfony 5 support is dropped.
- [Session] Implementing Session Configurator with tag `pimcore.session.configurator` to register session bags, is deprecated.
- [Permissions] Added an extra check about system permission in element `isAllowed()` method, please make sure your custom implementations are not affected by this change.
- PHP8 support is dropped.

Exam for Course 'What's new in Pimcore 10.5'

Question 1: What are relevant upgrade notes for Pimcore 10.5?

- ☒ [Security] It is recommended to use new Authenticator based system for authentication/authorization.
- ☒ [Backend search] key and index columns have been added to the search index. Run `./bin/console pimcore:search-backend-reindex` to reindex.
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- ☒ [Permissions] Added an extra check about system permission in element `isAllowed()` method, please make sure your custom implementations are not affected by this change.
- ☐ PHP8 support is dropped.
- ☐ Symfony 5 support is dropped.
- ☒ [Session] Implementing Session Configurator with tag `pimcore.session.configurator` to register session bags, is deprecated.

What's new in Pimcore 10.6'

Question 1: What are relevant upgrade notes for Pimcore 10.6?

- Introduced Elasticsearch 8 support.
- Configuration storage locations are now configurable via symfony config tree.
- Pimcore 10.6 is a maintenance and preparation release for Pimcore 11.
- It is now possible to add Custom Document Types.

23 Senior Pimcore Developer Exam

Question 1: What content can be dragged onto renderlets?

- ☒ Folders of Assets, Documents and DataObjects
- ☒ Assets
- ☒ Documents
- ☐ Any file from file system.
- ☒ DataObjects

Question 3: What is the preferred approach for managing localized data in data objects?

- ☐ One data object per language.
- ☐ Multiple languages within one data object by manually creating attributes for each language.
- ☐ Localized data cannot be managed with data objects.
- ☒ Multiple languages within one data object by using localized fields.

Question 5: What are possible ways for attaching additional information to relations?

- ☐ Use simple many-to-many relation type.
- ☒ Use advanced many-to-many relation type.
- ☒ Use a field collection with many-to-one relation and additional data attributes.
- ☒ Use block with many-to-one relation and additional data attributes.
- ☐ This requirement cannot be modelled with Pimcore.

Question 7: What elements can be controlled by user permissions?

- ☒ Perspectives.
- ☒ Custom Layouts.
- ☐ Custom Object Icons.
- ☐ Custom views directly.

Question 9: How to find out why output cache is deactivated for a request?

- ☐ Lucky guess.
- ☐ Output cache will be never deactivated for a request once activated in settings.
- ☒ Via response headers.
- ☐ Via debugger.

Question 11: Event dispatching is done via ...

- ☐ ... Pimcore specific event dispatcher.
- ☒ ... symfony event dispatcher.
- ☐ ... there are no events in Pimcore.
- ☐ ... Zend event dispatcher.

Question 13: Principles of the E-Commerce Framework

- ☐ Provide frontend templates and controller implementations.
- ☒ Provide set of modules that you can use in your implementation.
- ☒ Provide a framework for developers to build e-commerce solutions for customers.
- ☒ Native integration into Pimcore.
- ☐ Provide a full-featured standard e-commerce shop.

Question 15: Modules and Functionality of the Customer Management Framework

- ☐ Full-featured CRM functionality.
- ☒ Management of Customer Data.
- ☒ Management of Customer Activities.
- ☒ Duplicates detection.
- ☒ Single Sign On with Social Logins
- ☐ Full-featured out-of-the-box customer registration process.

Question 17: How is the assignment of segments to customers stored?

- ☐ Via activities.
- ☐ Via text fields.
- ☐ Via Pimcore properties.
- ☒ Via data object relations.

Question 19: On what elements workflows can be configured?

- ☐ System and website settings
- ☒ Data Objects
- ☒ Assets
- ☒ Documents
- ☐ Shared translations
- ☐ Glossary entries

Question 2: Which approaches of Web2Print can be implemented with Pimcore?

- ☒ Creative process
- ☒ Semi automated print process.
- ☐ Pimcore cannot support web2print processes.
- ☒ Fully automated print processes

Question 4: How to configure available languages for localization?

- ☐ Languages can be configured during Pimcore install and not be changed anymore later on.
- ☐ Available languages can be configured on object level.
- ☒ Languages can be configured and modified on the fly system-wide in system settings.
- ☐ There is no language setting available.

Question 6: What statements concerning object bricks and classification store are correct?

- ☐ Classification store and object bricks are designed to handle thousands of different categories and attributes.
- ☒ Object bricks support data inheritance.
- ☐ Object bricks can be added multiple times to the same data object field.
- ☐ Classification store supports all data types of data objects.
- ☒ Classification store keys represent the attributes that can be managed.

Question 8: What is the first level of the core cache?

- ☒ In-Process Registry.
- ☐ Cache Backend.
- ☐ Filesystem.
- ☐ Database.

Question 10: What information is stored in usage log?

- ☐ User information of all frontend requests.
- ☒ All requests done in Pimcore admin interface.
- ☐ Usage statistics about disk and memory usage.
- ☐ How often this Pimcore instance is used.

Question 12: What are special characteristics unique to Pimcore bundles compared to Symfony bundles?

- ☒ Pimcore bundles add methods to natively register JS and CSS files to be loaded with the admin interface and in editmode.
- ☒ Pimcore bundles show up in the extension manager and can be enabled/disabled from there.
- ☒ In the extension manager, you're able to trigger installation/uninstallation of bundles.
- ☐ Pimcore bundles cannot be installed via composer.
- ☐ Pimcore bundles can define new services, routes and can hook into the event system.

Question 14: How configuration of E-Commerce-Framework is done?

- ☒ Via Symfony configuration tree.
- ☐ Via source code only.
- ☐ Via custom XML configuration files.
- ☐ There is no configuration.

Question 16: What is the preferred way for creating and loading customers via Code?

- ☒ Using Customer Provider.
- ☐ Using standard Pimcore PHP API.
- ☐ Just work with customers in Pimcore backend interface.
- ☐ Using custom code for writing to database.

Question 18: What are the four mandatory steps to setup personalization with Pimcore?

- ☒ Define Target Groups.
- ☒ Setup Profiling Rules.
- ☐ Create Customer Login.
- ☒ Create Personalized Content.
- ☒ Deliver Personalized Content.
- ☐ Manually deactivate Output Cache.

Question 20: What workflow type allows multiple states at the same time?

- ☒ Workflow
- ☐ Statemachine
- ☐ Multi-Workflow
- ☐ Not possible at all.

Question 21: What reporting concepts can be implemented with Pimcore?

- ☒ Inline Reporting.
- ☒ Reporting Portals.
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- ☒ Custom Reports.
- ☐ Native BI Module Reports.
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