



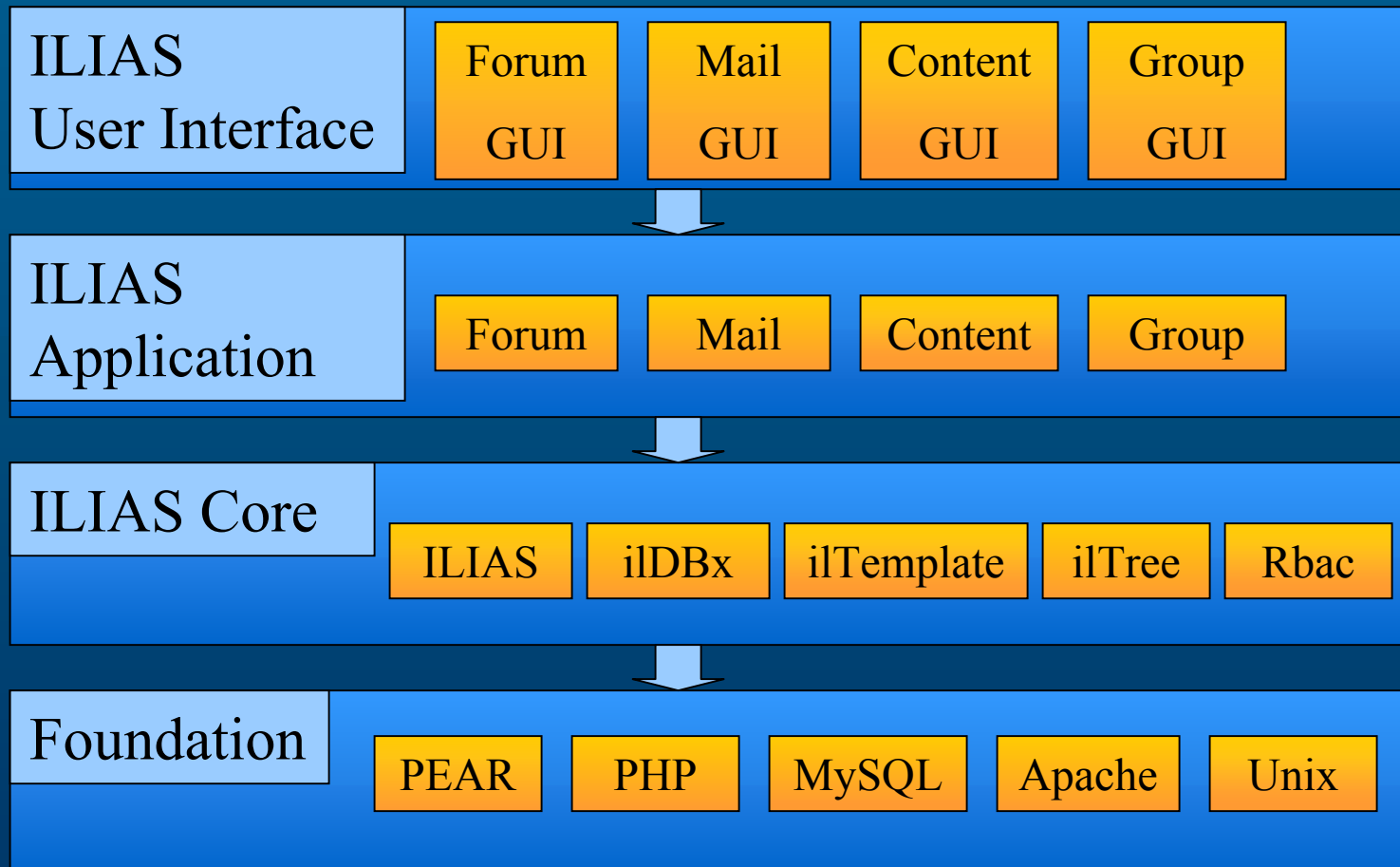
ILIAS 3 Architecture

2nd International ILIAS Conference • Developer Workshop

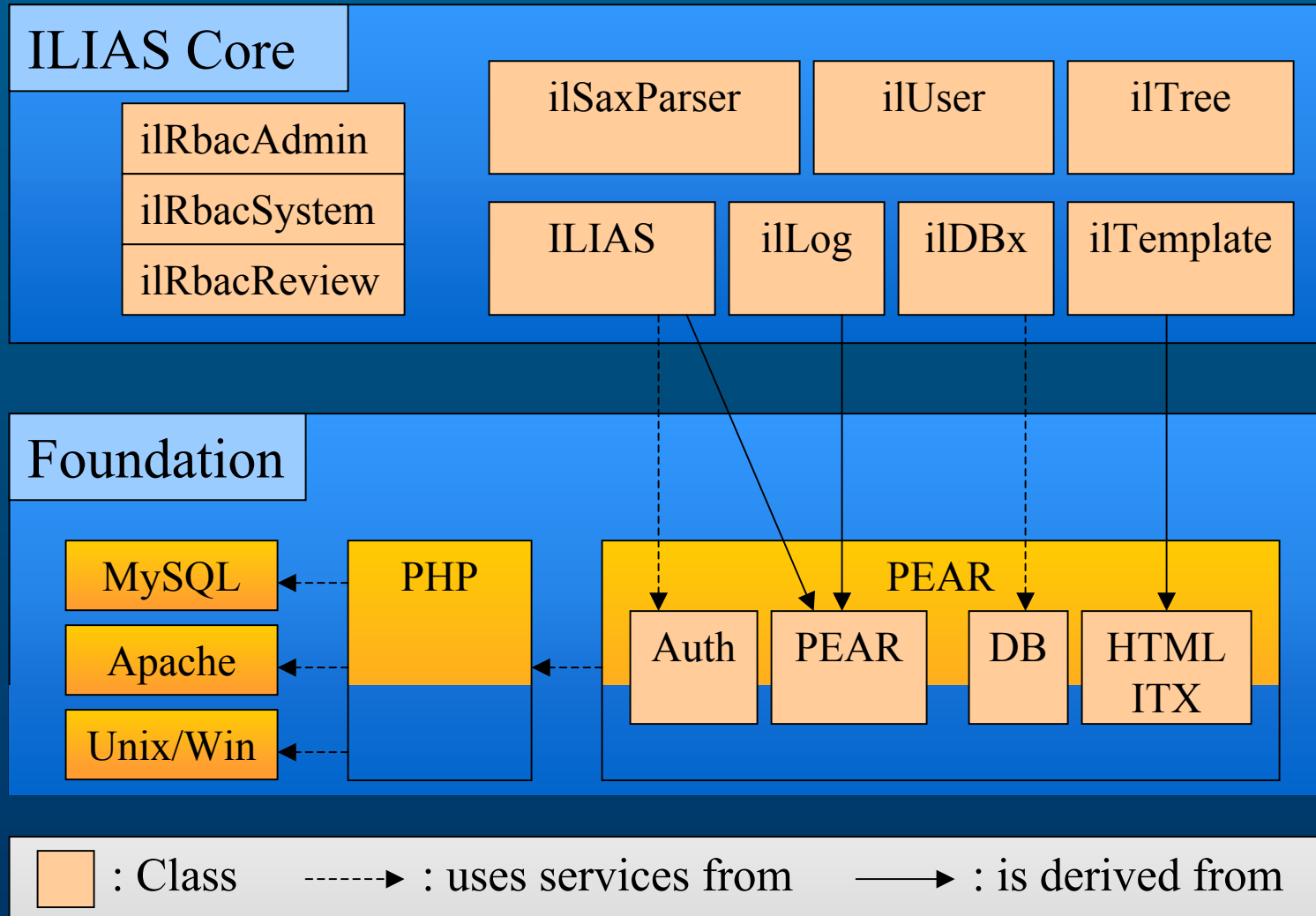
Alexander Killing • **Boris Schürmann**

ILIAS open source @ Universität zu Köln

Layers of the ILIAS 3 System

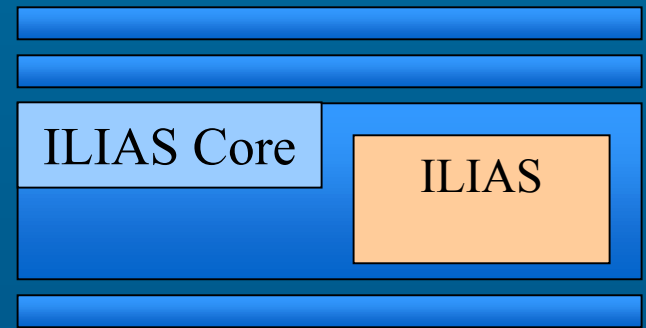


Foundation and ILIAS Core Layer





Class ILIAS



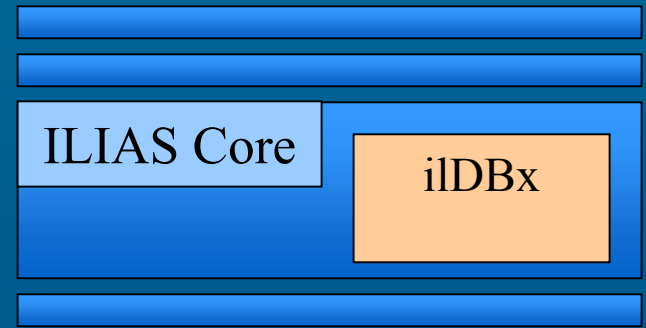
- Main ILIAS class (instance created in inc.header.php)
- Initializes database connection
- Loads configuration from ilias.ini file
- Initializes and provides error handler
- Provides user object of current user
- Provides methods for accessing the system settings

Code Examples

- `$zip = $ilias->getSetting(„zip_path“);`
- `$c_user = $ilias->getCurrentUser();`
`$user_name = $c_user->getFullName();`



Class iDBx



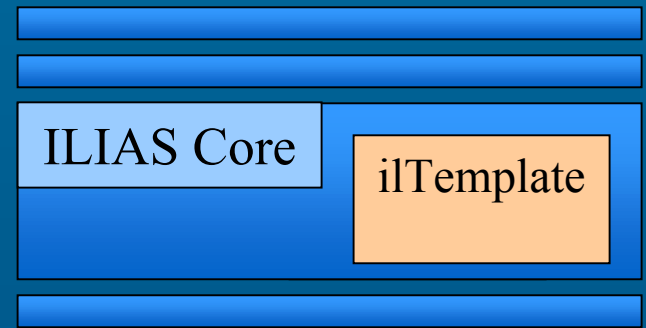
- Manages Database access
- An instance of this class named `$db` is available via the global `$ilias` object

Code Example

- ```
$query = „SELECT foo FROM bar“;
$result = $ilias->db->query($query);
$first_record = $result->fetchRow();
```



## Class ilTemplate



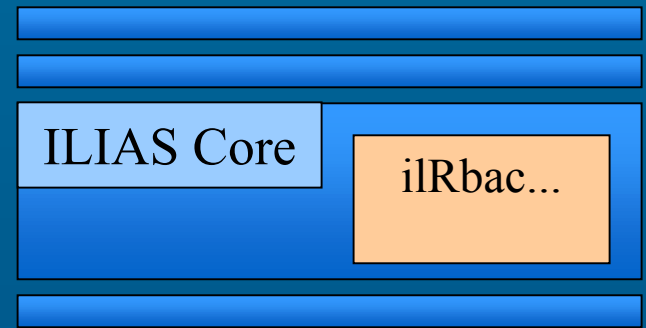
- Generates all HTML output of ILIAS
- An instance of this class named \$tpl is global accessible

### Code Example

- ```
$tpl->setCurrenBlock(„locator_item“);  
$tpl->setVariable(„ITEM“, $title);  
$tpl->setVariable(„LINK“,  
„foo.php?id=“.$id);  
$tpl->parseCurrentBlock;
```



Class ilRbac...

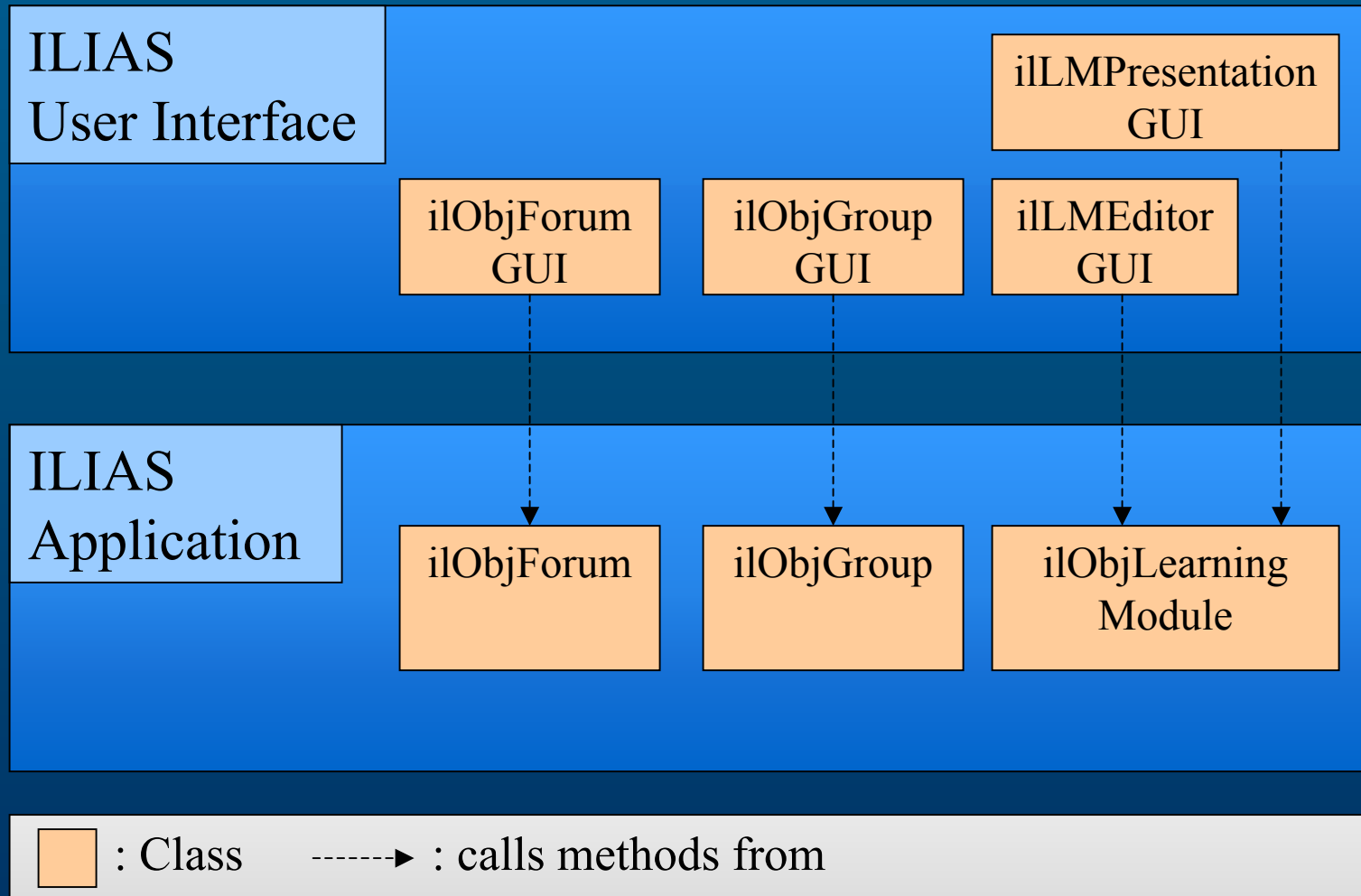


- The three major classes of the role based access control system are called ilRbacAdmin, ilRbacSystem and ilRbacReview
- Instances of these classes are global accessible

Code Examples

- `$rbacsystem->checkAccess(„read“, $ref_id);`
- `$rbacadmin->assignUser($role_id, $user_id);`
- `$users = $rbacreview->assignedUsers($role_id);`

Application and GUI Layer





Responsibilities of Application and GUI Layer

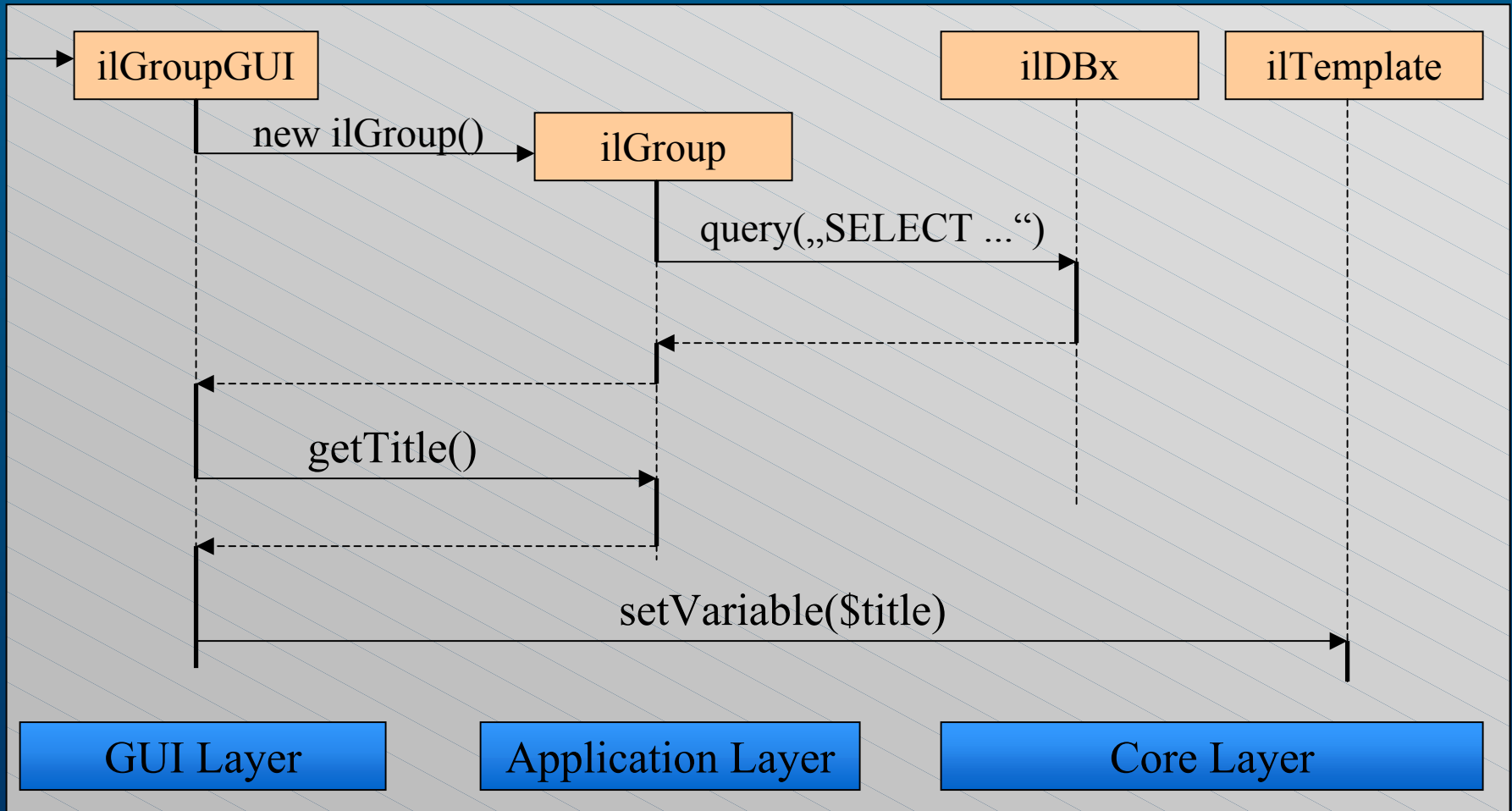
GUI Layer

- Processes input and generates output
- Accesses \$_GET and \$_POST variables
- Calls methods of the Application Layer
- Generates output with Template Engine

Application Layer

- Accesses database to insert, update and delete data
- Calls other application or core classes to perform some tasks

Example Flow of Control





Thank you!

For more information please contact

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or visit our forum: **www.ilias.de/iosbb**