(TR-102)
MASTERING THE SEMANTIC WEB

Training Day 15 Report:

2 July 2024

The fifteenth day of the training focused on GIT (Version Control System) which follows Agile methodologies. Participants learned about the integration of GIT with both GIT Bash and Visual Studio (VS) Studio. The main commands covered were PUSH, PULL, MERGE, and BRANCH. Merge conflicts, which are unavoidable at the beginner level, were also addressed. The session covered the implementation of GitHub and GitLab for version control. Participants were introduced to task management tools such as Trello and JIRA. All participants uploaded their training data to the organizational repository created by the Training Coordinator. The steps followed for this task included forking, cloning (repository in GitHub Desktop), pushing, merging, and creating pull requests. Additionally, the session provided information on courses to pursue after the training to build knowledge and skills in their desired tracks.

Topics Covered:

GIT and Agile Methodology

- Introduction to GIT as a version control system that complements Agile practices.
- Options for integrating GIT with GIT Bash and VS Studio.

Main GIT Commands

- **PUSH:** Upload local repository content to a remote repository.
- **PULL:** Fetch and merge changes from a remote repository to a local repository.
- **MERGE:** Combine multiple sequences of commits into one unified history.
- **BRANCH:** Create branches to develop features, fix bugs, or experiment without affecting the main codebase.

Merge Conflicts

- Common at the beginner level.
- Strategies for resolving conflicts.

Implementation of GitHub and GitLab

Discussion on the use of GitHub and GitLab for version control.

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Task Management Tools:

Introduction to Trello and JIRA for managing tasks and workflows.

Practical Implementation: Participants uploaded their training data to the organizational repository following these steps:

1. **Fork:** Create a personal copy of the repository.
2. **Clone:** Download the repository to GitHub Desktop.
3. **Push:** Upload changes to the remote repository.
4. **Merge:** Integrate changes from different branches.
5. **Pull Request:** Propose changes and request a review.

Post-Training Courses:

Information on courses for further skill development was provided, tailored to participants' desired tracks.

Tasks Completed: Participants successfully uploaded their training data to the organizational repository by following the outlined GIT steps.

Recommendations for Participants:

- Continue practicing GIT commands to become more proficient.
- Explore and get comfortable with task management tools like Trello and JIRA.
- Enroll in post-training courses to deepen knowledge and enhance skills in specific areas of interest.

Conclusion:

Day 15 of the training was highly productive, focusing on essential version control practices using GIT, task management tools, and outlining future learning paths for participants. The hands-on experience of uploading data to the organizational repository reinforced the day's learning objectives.