LAPORAN HASIL PRAKTIKUM MATA KULIAH:

TEKNIK PEMROGRAMAN – PERTEMUAN 9



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D4 TEKNIK INFORMATIKA
POLITEKNIK NEGERI BANDUNG
2023

DAFTAR ISI

1.	Penerapan Generic Programming	. 3
	A. ExpenseController.java	
	B. ExpenseCategory	
	C. ExpenseRepo.java	
	D. ExpenseService.java	. 7
	Solusi dari masalah yang dihadapi	
	Nama teman yang membantu	

1. Penerapan Generic Programming

A. ExpenseController.java

Enumeration

return ResponseEntity.status(HttpStatus.NO_CONTENT).build();

return ResponseEntity.status(HttpStatus.CREATED).build();

```
### PrakticumApplication.java  ### J ExpenseController.java 1  ### J ExpenseService.java  ### J ExpenseRepo.java  ### J Expens
```

Generic Class

public ResponseEntity<Object> updateExpense(@RequestBody Expense expense)

return ResponseEntity.ok().build();

public ResponseEntity<Object> deleteExpense(@PathVariable String id)

public ResponseEntity<Expense> getExpenseByName(@PathVariable String name)

public ResponseEntity<List<Expense>> getAllExpense()

return ResponseEntity.ok(expenseService.getAllExpense());

```
### District | Distric
```

B. ExpenseCategory

Enumeration

```
public enum ExpenseCategory {
    ENTERTAINMENT, GROCERIES, RESTAURANT, UTILITIES, MISC
}
```

C. ExpenseRepo.java

Generic Class

```
public interface ExpenseRepo extends MongoRepository<Expense, String> {
    @Query("{'name': ?0}")
    Optional<Expense> findByName(String name);
}
```

```
nal Help
                           MongoRepository.class - Java - Visual Studio Code
                                                                                             * @author Christoph Strobl
    @NoRepositoryBean
    public interface MongoRepository<T, ID>
37
           extends ListCrudRepository<T, ID>, ListPagingAndSortingRepository<T, ID>, QueryByExampleExecutor<T> {
38
          * Prefer using {@link #save(Object)} instead to avoid the usage of store-specific API.
         * @param entity must not be {@literal null}.
         <S extends T> S insert(S entity);
51
         * Inserts the given entities. Assumes the given entities to have not been persisted yet and thus will optim
          * insert over a call to {@link #saveAll(Iterable)}. Prefer using {@link #saveAll(Iterable)} to avoid the us
          * @param entities must not be {@literal null}.
```

```
### Practition Application.java | DepenseController.java | JexpenseService.java | JexpenseRepo.java | Jexp
```

D. ExpenseService.java

Generic Class

```
expenseRepository.insert(expense);

expenseRepository.findById(expense.getId())

public List<Expense> getAllExpense() {
    return expenseRepository.findAll();
    }

return expenseRepository.findByName(name)
```

expenseRepository.deleteById(id);

```
nal Help
                                                                                                            MongoRepository.class - Java - Visual Studio Code

J MongoRepository.class 

X
      * @author Christoph Strobl
     @NoRepositoryBean
37
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44
          * @param entity must not be {@literal null}.
48
49
         <S extends T> S insert(S entity);
          * insert over a call to {@link #saveAll(Iterable)}. Prefer using {@link #saveAll(Iterable)} to avoid the us
```

2. Solusi dari masalah yang dihadapi

Searching, Googling, Memahami lebih cermat.

3. Nama teman yang membantu

1. Najib Alimudin Fajri