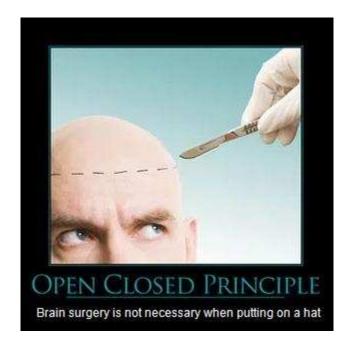
# Spot SOLID (in) Shark

# Open/Closed Principle

An enity should be open for extension, but closed for modification



- Large Class (780 lines of code)
- Long Method (around each 40 lines of code)
- Primitives Obsession
- Long Parameter List
- Message Chain
- Comments
- ...
- One Test-Class (1200 lines of Code)

- WorkOperationExecutorSucheMitKriterien
  - WorkOperationExecutorSucheMitKriterien(ServiceManager)
  - m 🔋 createBelegSucheHelper(): BelegSucheHelper
  - m = execute(BelegSuchkriterien): AbstractValueObject
  - 🇓 🔒 searchMutterschaftFall(BelegSuchkriterien, int, BelegSuchresultat): void
  - 📵 🔒 searchZeitfenster(BelegSuchkriterien, int, BelegSuchresultat): void
  - 📠 🖇 mapZeitfensterToRow(List<ASLeistungZeitfenster>); ValueObjectList<ZeitfensterBelegsucheRow>
  - 📠 🔒 filterZfTyp(ASLeistungZeitfenster, ArrayList<StringEnumeration>): boolean
  - m 🔒 toLocalDate(Date): LocalDate
  - m A logException(RuntimeException): void
  - getAsLeistungZeitfensterQueryAccessor(): ASLeistungZeitfensterQuery
  - 📠 🔒 searchKogu(BelegSuchkriterien, int, BelegSuchresultat): void
  - 🎟 🔒 searchTaggeld(BelegSuchkriterien, int, BelegSuchresultat): void 🥄
  - searchTaggeldAuszahlung(BelegSuchkriterien, int, BelegSuchresultat): void
  - m 

    searchStg(BelegSuchkriterien, int, BelegSuchresultat): void
  - 🎟 🔒 searchShv(BelegSuchkriterien, int, BelegSuchresultat): void
  - 📠 🔒 searchFrv(BelegSuchkriterien, int, BelegSuchresultat): void
  - m a searchVorgangstrackers(BelegsucheKategorie, BelegSuchkriterien, int, BelegSuchresultat): void
  - 📠 🔒 validatePflichtSuchKriterien(BelegSuchkriterien): void
  - 📠 🔒 throwValidationExceptionlfInvalid(BelegsucheKategorie, boolean, String, ValidationMessages, BelegSuchkriterien): void
  - m 🔒 validateVpSchutzAufSuchKriterien(BelegSuchkriterien): void
  - 💿 🔒 validateBelegkategorieBerechtigung(BelegSuchkriterien): void
  - m 🗎 isTrackerSucheMoeglich(BelegSuchkriterien): boolean
  - 🇓 🔒 searchAbrechnungHeilungskosten(BelegSuchkriterien, int, BelegSuchresultat): void
  - m 🗎 getPartnerId(Vorgangstracker): String
  - 🥅 🔒 addBelegsuchresultat(BelegSuchkriterien, List<? extends Vorgang>, BelegsucheKategorie, int, BelegSuchresultat): void
  - m addServerMessage(BelegSuchresultat): void
  - 🎟 🔒 userBerechtigt(BelegSuchkriterien, Belegart, String): boolean
  - 📠 🔒 berechtigungspruefungDurchKriterienErfuellt(BelegSuchkriterien, Belegart): boolean
  - m 🔒 grenzeEinNachNap(AbrechnungQuery, Nap): void
  - 📠 🔒 addVorgangKriterien(BelegSuchkriterien, VorgangQuery, BelegsucheKategorie): void
  - 📠 🔒 validateVpSchutz(String, String, LocalizableMessage): void
  - m = getMaxRowsFromConfig(): int
  - m 🗎 getBelegtypForBelegsucheKategorie(BelegSuchkriterien, BelegsucheKategorie): ArrayList<String>
  - getMutterschaftFallAccessor(): MutterschaftFallAccessor
  - BELEGKATEGORIEN\_VERSICHERTE\_PERSON\_PLICHT: List<BelegsucheKategorie> = ImmutableList.of(...)
  - GENCONFIG\_OBJECTKEY\_LEISTUNGS\_CLIENT: String = "LeistungsClient"
  - GENCONFIG\_ATTRKEY\_SUCHE\_MAX\_ROWS: String = "sucheMaxRows"
  - DEFAULT\_MAX\_ROWS: Integer = Integer.valueOf(...)
  - 🧗 🔒 NICHT\_SUCHBARE\_VERARBEITUNGSSTATUS: String[] = {Verarbeitungsstatus.VORVERSICHERER.getValue(), Verarbeitungsstatus.TECHNISCHABGEBROCHEN.getValue()}
  - 1 serviceManager: ServiceManager
  - belegSucheHelper: BelegSucheHelper

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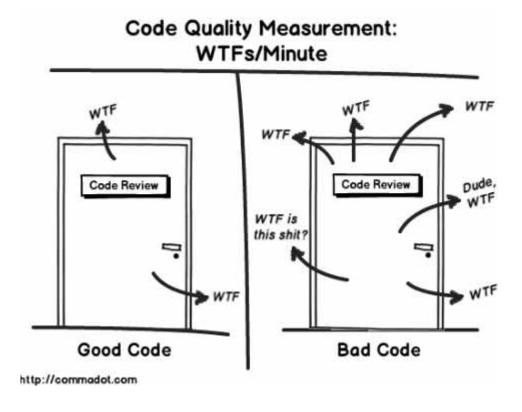
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- AbrechnungHeilungskostenSearch
- BelegsucheKategorie
- C FrvSearch
- CoguSearch
- MutterschaftSearch
- SearchCriteria
- SearchCriteriaValidator
- SearchFactory
- ShvSearch
- StgSearch
- TaggeldAuszahlungSearch
- TaggeldSearch
- VorgangstrackersSearch
- WorkOperationExecutorSucheMitKriterien
- ZeitfesterSearch

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  - 🎁 🔒 serviceManager: ServiceManager

## Conclusion

- WTFs/Minute was high
- Got lost by doing serveral things at the same time
- SOLID is your tool, not your goal.
- Pair/Mob programing as a soloution



### Links

- https://www.youtube.com/watch?v=rtmFCcjEgEw&ab\_channel=Larac onEU Becoming a better developer by using the SOLID design principles by Katerina Trajchevska
- https://refactoring.guru/smells
- https://www.digitalocean.com/community/conceptual\_articles/ s-o-l-i-d-the-first-five-principles-of-object-oriented-design