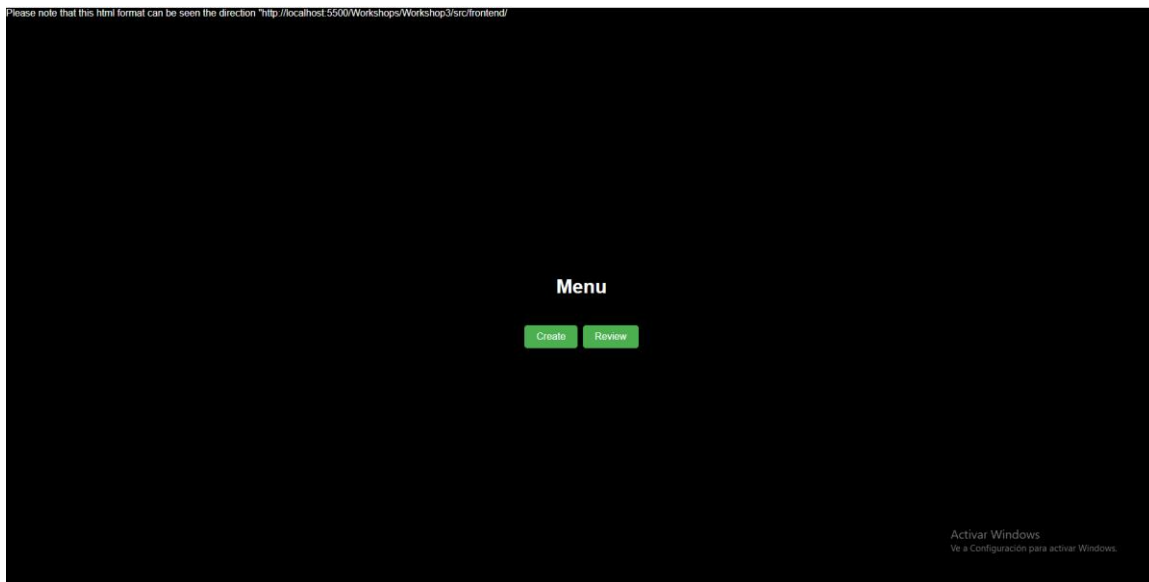


# Technical report – Workshop N°3

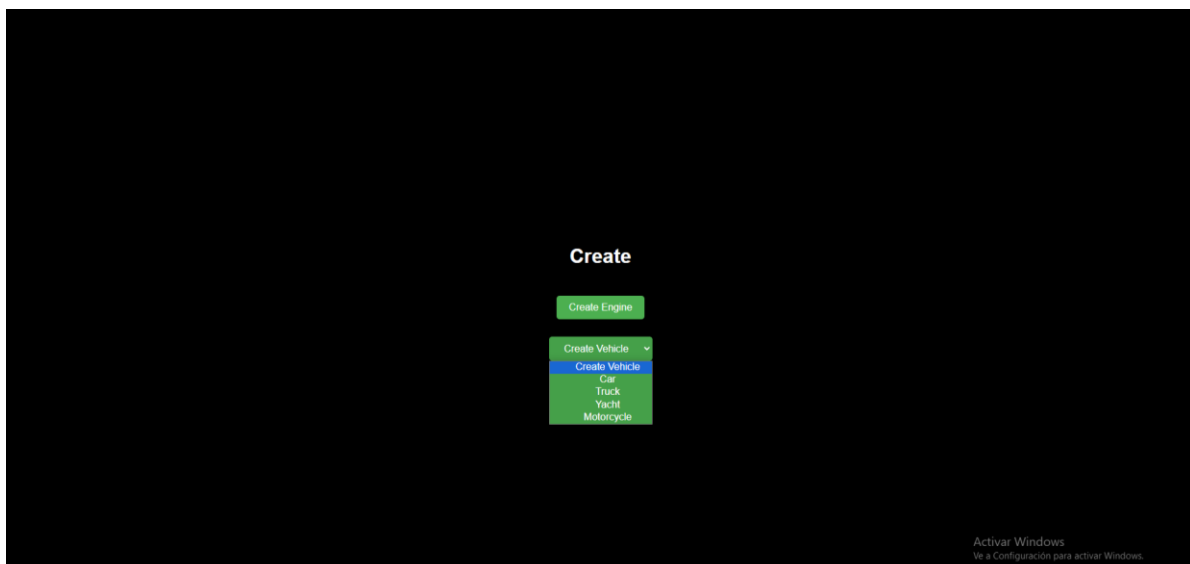
## 1. User stories redefined

### 1. IU PROTOTYPES

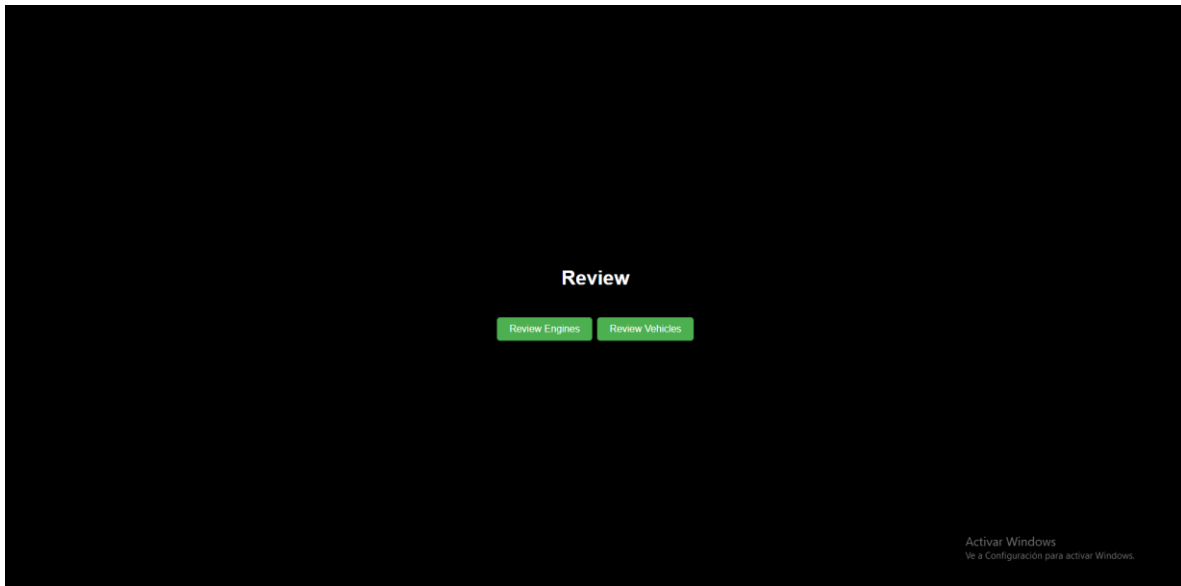
Principal Menu:



Add new engine and new vehicle:



See all vehicles and engines:



### 3. EXAMPLE OF JSON STRUCTURES:

Engine:

```
{  
  "engine_type": "gasoline",  
  "potency": 200,  
  "weight": 150  
}
```

Vehicle:

```
{  
  "chasis": "A",  
  "model": "Toyota Camry",  
  "year": 2022,  
  "engine": {  
    "engine_type": "gasoline",  
    "potency": 200,  
    "weight": 150  
  }  
}
```

```
}  
}
```

#### 4. Web services

```
app = FastAPI()
```

```
vehicles = []
```

```
@app.post("/create-engine/")  
async def create_engine(engine: Engine):  
    vehicles.append(engine)  
    return {"message": "Engine created successfully"}
```

```
@app.post("/create-vehicle/")  
async def create_vehicle(vehicle: Vehicle):  
    vehicles.append(vehicle)  
    return {"message": "Vehicle created successfully"}
```

```
@app.get("/review-vehicles/")  
async def review_vehicles():  
    return {"vehicles": vehicles}
```

```
@app.get("/review-engines/")  
async def review_engines():  
    engine_list = [vehicle for vehicle in vehicles if isinstance(vehicle, Engine)]  
    return {"engines": engine_list}
```