

Za ovaj zadatak koristio sam Microsoft Visual Studio i C# programski jezik. Napravio sam bazu podataka ShipmentTrackingDB koja se sastoji od 3 tablice, Party, Address i Shipment. Svaka od njih ima svoje vrijednosti kao što su npr. ime, prezime, ulica, grad, id, trackingCode, trackingDate itd. Bazu podataka sam ispunio sa 14 nasumično generiranih osoba. Aplikacija se sastoji od grafičkog sučelja koje prikazuje određene podatke iz baze podataka koji su mi se činili najpotrebniji za prikaz. Te ima 2 search funkcionalnosti, jedna je traženje po trackingCodeu (idShipmenta), a druga je po datumu od do (odnosi se samo na kada su shipmenti napravljeni, ne kada će biti isporučeni). Sljedeće slike prikazuju aplikaciju.

Početni prikaz aplikacije pri otvaranju iste:

The screenshot shows a window titled 'Form1' with a search interface and a table of shipment data. The search interface includes 'From date' and 'To date' dropdowns set to '14. 3.2023.', and two buttons: 'Search by trackingDate' and 'Search by trackingCode'. The table has the following columns: id, trackingCode, carrier, trackingDate, status, estimatedDeliveryDate, receiverName, and receiverEmail. The data is as follows:

id	trackingCode	carrier	trackingDate	status	estimatedDeliveryDate	receiverName	receiverEmail
01	123456789	FedEx	8.3.2022. 10:00	processed	15.3.2022. 12:00	Jane Smith	janesmith@example.com
02	987654321	UPS	7.3.2022. 15:00	shipped	11.3.2022. 10:00	John Doe	johndoe@example.com
03	345678901	USPS	6.3.2022. 9:00	delivered	11.3.2022. 14:00	Marie Dupont	mdupont@example.com
04	901234567	DHL	5.3.2022. 13:00	shipped	9.3.2022. 16:00	Juan Rodriguez	jrodriguez@example.com
05	567890123	FedEx	4.3.2022. 16:00	processed	12.3.2022. 18:00	Bob Johnson	bjohnson@example.com
06	678901234	UPS	8.3.2022. 10:00	shipped	14.3.2022. 12:00	Jennifer Lee	jlee@example.com
07	789012345	DHL	9.3.2022. 14:00	out_for_delivery	16.3.2022. 16:00	Sherlock Holmes	sholmes@example.com
08	901234567	DHL	10.3.2022. 11:00	delivered	18.3.2022. 12:00	Hans Schmidt	hschmidt@example.com
09	234567890	DHL	16.3.2022. 10:00	in transit	13.3.2022. 12:00	Maria Sanchez	msanchez@example.com
10	345678901	UPS	14.3.2022. 14:00	in transit	15.3.2022. 16:00	Hans Schmidt	hschmidt@example.com
11	456789012	TNT	10.4.2022. 11:00	in transit	16.3.2022. 10:00	Hans Schmidt	hschmidt@example.com
12	789012345	DHL	1.5.2022. 14:00	shipped	11.3.2022. 12:00	Marta Silva	msilva@example.com
13	901234567	UPS	6.5.2022. 10:00	out_for_delivery	9.3.2022. 16:00	Klaus Müller	kmüller@example.com

The screenshot shows the same 'Form1' window with the same search interface. The table below displays receiver address information. The columns are: DeliveryDate, receiverName, receiverEmail, receiverPhone, street, city, zipCode, and country. The data is as follows:

DeliveryDate	receiverName	receiverEmail	receiverPhone	street	city	zipCode	country
. 12:00	Jane Smith	janesmith@example.com	+1 (555) 987-6543	123 Main St	Los Angeles	90001	USA
. 10:00	John Doe	johndoe@example.com	+1 (555) 123-4567	456 Park Ave	New York	10022	USA
. 14:00	Marie Dupont	mdupont@example.com	+33 1 23 45 67 89	789 5th Ave	New York	10019	USA
. 16:00	Juan Rodriguez	jrodriguez@example.com	+1 (305) 555-1212	10 Downing St	London	SW1A 2AA	UK
. 18:00	Bob Johnson	bjohnson@example.com	+44 20 1234 5678	Champs-Élysées	Paris	75008	France
. 12:00	Jennifer Lee	jlee@example.com	+1 (213) 555-1212	123 Main St	Los Angeles	90001	USA
. 16:00	Sherlock Holmes	sholmes@example.com	+44 20 7224 3688	456 Park Ave	New York	10022	USA
. 12:00	Hans Schmidt	hschmidt@example.com	+49 30 24047733	789 5th Ave	New York	10019	USA
. 12:00	Maria Sanchez	msanchez@example.com	+34 91 555 12 34	Friedrichstraße 207	Berlin	10117	Germany
. 16:00	Hans Schmidt	hschmidt@example.com	+49 30 24047733	Leidseplein	Amsterdam	1017 PS	Netherlands
. 10:00	Hans Schmidt	hschmidt@example.com	+49 30 24047733	Viale della Libertà	Rome	00100	Italy
. 12:00	Marta Silva	msilva@example.com	+351 123 456 789	123 Main St	Los Angeles	90012	USA
. 16:00	Klaus Müller	kmüller@example.com	+49 123 456 789	221B Baker St	London	NW1 6XE	UK

Prikaz funkcije search by trackingCode:

Form1

From date:

14. 3. 2023.

To date:

14. 3. 2023.

Search by trackingDate

123456789

Search by trackingCode

	id	trackingCode	carrier	trackingDate	status	estimatedDeliveryDate	receiverName	receiverEmail	rec
▶	01	123456789	FedEx	8.3.2022. 10:00	processed	15.3.2022. 12:00	Jane Smith	janesmith@example.com	+1 (

Prikaz funkcije search by trackingDate:

Form1

From date:

7. 3. 2022.

To date:

16. 3. 2022.

Search by trackingDate

Search by trackingCode

	id	trackingCode	carrier	trackingDate	status	estimatedDeliveryDate	receiverName	receiverEmail
▶	01	123456789	FedEx	8.3.2022. 10:00	processed	15.3.2022. 12:00	Jane Smith	janesmith@example.com
	02	987654321	UPS	7.3.2022. 15:00	shipped	11.3.2022. 10:00	John Doe	johndoe@example.com
	06	678901234	UPS	8.3.2022. 10:00	shipped	14.3.2022. 12:00	Jennifer Lee	jlee@example.com
	07	789012345	DHL	9.3.2022. 14:00	out_for_delivery	16.3.2022. 16:00	Sherlock Holmes	sholmes@example.com
	08	901234567	DHL	10.3.2022. 11:00	delivered	18.3.2022. 12:00	Hans Schmidt	hschmidt@example.com
	09	234567890	DHL	16.3.2022. 10:00	in transit	13.3.2022. 12:00	Maria Sanchez	msanchez@example.com
	10	345678901	UPS	14.3.2022. 14:00	in transit	15.3.2022. 16:00	Hans Schmidt	hschmidt@example.com