



# Projektni razvoj aplikacija

Predavanje 6

The background features a large orange semi-circle on the right side. To its left, there is a smaller orange circle. Various pink geometric elements are scattered around: a dashed vertical line on the far left, a solid square outline, a solid L-shaped line, a dashed curved line, and a solid curved line. A small pink circle is visible in the top right corner.

# Planiranje projekta

Kratko ponavljanje  
3 najvažnije stvari

# Iterativni način rada



# Rezultat iteracije

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- Iteracija: projekt u malom
- Rezultat iteracije:
  - **Potpuno funkcionalna aplikacija**
  - Čitav projekt – cjelokupna funkcionalnost
  - Iteracija – dio funkcionalnosti
  - Kvaliteta: ista u oba slučaja
  - Prikupljanje / revizija zahtjeva
    - 1. iteracija – razvoj novih funkcionalnosti
    - Sljedeće iteracije – razvoj novih, dorada / ispravljanje postojećih



Kakvu poruku šaljemo?

1. prikupljanje/revizija zahtjeva
2. osmišljavanje dizajna aplikacije
3. razvoj funkcionalnosti
4. testiranje funkcionalnosti
5. dokumentiranje
6. isporuku kod naručitelja

# Određivanje duljine iteracije

- Preporuka: kalendarski mjesec dana
  - Ako niste sigurni, počnite s preporučenim trajanjem
- Mogućnosti:
  - Duže
    - Loše: komentar saznajemo prekasno
  - Kraće
    - Loše: opterećenje izdavanjem iteracija



- Što ako nemamo što pokazati?

The background features a large orange semi-circle on the right side. To its left, there is a smaller orange circle. Various pink geometric elements are scattered around: a dashed vertical line on the far left, a solid square outline, a dashed curved line, a solid L-shaped line, and a solid circle in the top right corner.

# Raspoređivanje zahtjeva po iteracijama

Teorija

# Studija slučaja

Podsjetnik:  
Koliko ljudi?  
3 programera

Korisnik prihvatio podjelu u dvije faze

Zahtjev	Prioritet	Procjena posla
Prijava na sustav	50	10 dana
Prijava ispita	10	20 dana
Pregled rokova za prijavu	10	20 dana
Ispis ispitnih rokova	30	20 dana
Moji predmeti	30	20 dana
Moji nastavni materijali	30	10 dana
Osobni podaci i izmjena lozinke	20	15 dana
Ispis informacija na početnoj stranici	50	5 dana
	Ukupno:	<b>120 dana</b>

# Raspoređivanje zahtjeva po iteracijama

- Sada kada znamo točno koliko posla imamo u fazi 1 i koliko će ljudi na projektu raditi, možemo **podijeliti pojedine zahtjeve po iteracijama**.
- Kako imamo 3 mjeseca pred sobom, možemo se odlučiti na **3 iteracije** pri čemu će svaka **trajati kalendarskih mjesec dana**
- Unutar mjesec dana na raspolaganju imamo:
- **$3 \text{ programera} * 20 \text{ radnih dana} * 0.7 = 45 \text{ dana posla}$ .**
- To znači da poslove moramo podijeliti u 3 grupe od kojih će pojedina biti oko 45 dana.



# Raspoređivanje zahtjeva po iteracijama

## Opcija 1

Zahtjev – Iteracija 1	Prioritet	Procjena posla
Prijava na sustav	50	10 dana
Pregled rokova za prijavu	10	20 dana
Ispis informacija na početnoj stranici	50	5 dana
	Ukupno:	<b>35 dana</b>

Zahtjev – Iteracija 2	Prioritet	Procjena posla
Prijava ispita	10	20 dana
Ispis ispitnih rokova	30	20 dana
	Ukupno:	<b>40 dana</b>

Zahtjev – Iteracija 3	Prioritet	Procjena posla
Moji predmeti	30	20 dana
Moji nastavni materijali	30	10 dana
Osobni podaci i izmjena lozinke	20	15 dana
	Ukupno:	<b>45 dana</b>

# Raspoređivanje zahtjeva po iteracijama

## Opcija 2

Zahtjev – Iteracija 1	Prioritet	Procjena posla
Prijava na sustav	50	10 dana
Pregled rokova za prijavu	10	20 dana
Osobni podaci i izmjena lozinke	20	15 dana
	Ukupno:	<b>45 dana</b>

Zahtjev – Iteracija 2	Prioritet	Procjena posla
Prijava ispita	10	20 dana
Ispis ispitnih rokova	30	20 dana
	Ukupno:	<b>40 dana</b>

Zahtjev – Iteracija 3	Prioritet	Procjena posla
Moji predmeti	30	20 dana
Moji nastavni materijali	30	10 dana
Ispis informacija na početnoj stranici	50	5 dana
	Ukupno:	<b>35 dana</b>

The background features a large orange semi-circle on the right side. On the left, there are several pink geometric elements: a vertical dashed line, a square outline, a diagonal line segment, and a cluster of four short, curved line segments. A small orange circle is positioned in the upper left area, and a pink circle is partially visible in the top right corner.

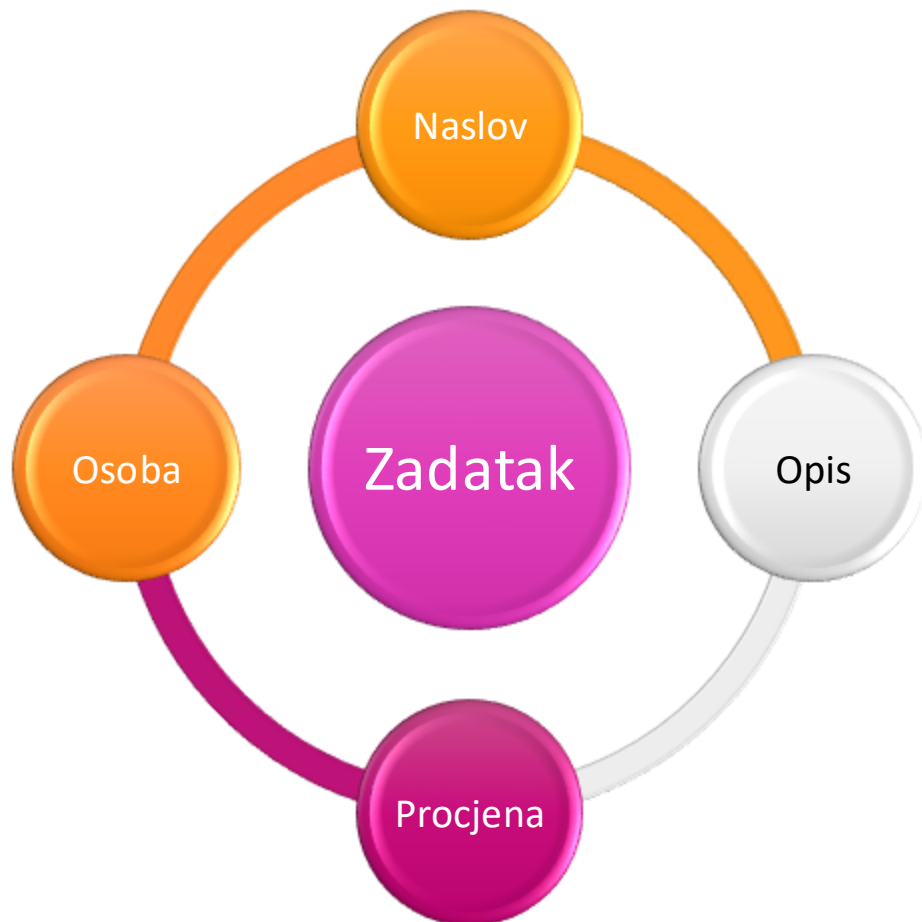
# Novi zahtjevi

Što ako nam se pojave tijekom projekta,  
nakon što smo već sve isplanirali?

# Novi zahtjevi

- Novi zahtjevi nakon raspodjele korisničkih zahtjeva po iteracijama
- Postupak:
  - **Procijeniti** novi zahtjev
  - S naručiteljem **ponovno odrediti prioritete** pojedinih zahtjeva, odnosno odrediti gdje se ovaj novi zahtjev nalazi u odnosu na sve zahtjeve koji su postojali od ranije
  - **Ponovno raspodijeliti** zahtjeve po iteracijama
- Na kraju:
  - Možemo pomaknuti krajnji rok projekta
  - Može odustati od dijela funkcionalnosti
  - Možemo dodati nove ljude na projekt

# Podjela korisničkih zahtjeva u zadatke



- Sve zadatke 1 osobi?
- Za?
- Protiv?
  - Kompleksni
  - Moraju biti što prije gotovi
  - Stručnjaci za pojedina područja

# Podjela u zadatke

**Osobni podaci i izmjena lozinke**

**15 dana**

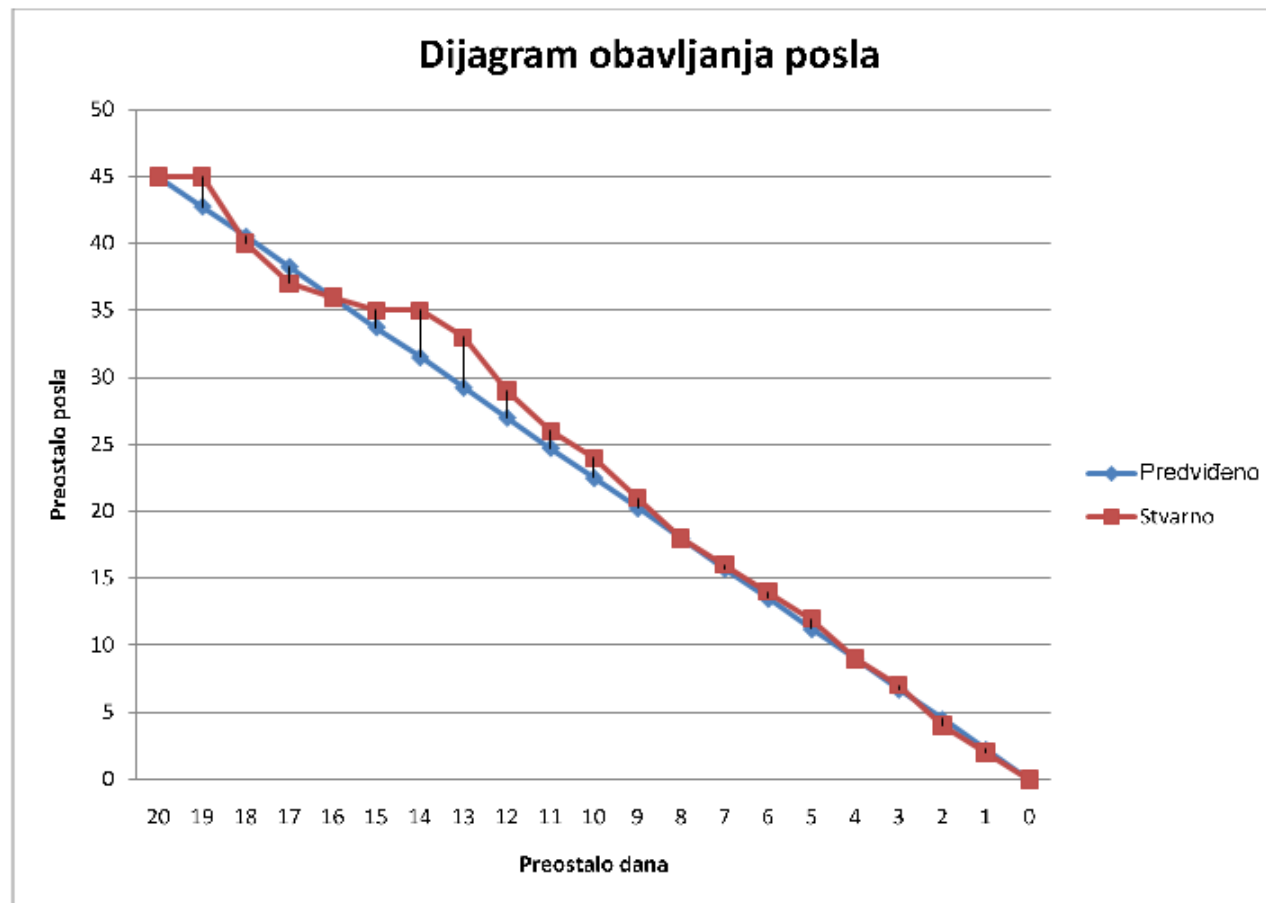
Naslov	Opis	Procjena
<b>Zadatak 1</b>	Osmišljavanje klase Student sa svojstvima, metodama	<b>4</b>
<b>Zadatak 2</b>	Kreiranje tablice u bazi podataka za spremanje podataka o studentu	<b>2</b>
<b>Zadatak 3</b>	Kreiranje pohranjenih procedura, pogleda za pronalaženje, unos, izmjenu i brisanje studenata	<b>2</b>
<b>Zadatak 4</b>	Izrada podatkovnog sloja aplikacije	<b>3</b>
<b>Zadatak 5</b>	Izrada poslovnog sloja aplikacije	<b>3</b>
<b>Zadatak 6</b>	Izrada korisničkog sučelja	<b>3</b>
		<b>17 dana</b>

The background features several abstract geometric elements: a large orange circle in the upper left, a large orange semi-circle on the right side, a pink square outline on the left, a pink dashed line in the lower left, and a pink line forming a corner in the upper right. A small pink circle is partially visible in the top right corner.

Praćenje izvođenja  
projekta

# Dijagram obavljanja posla

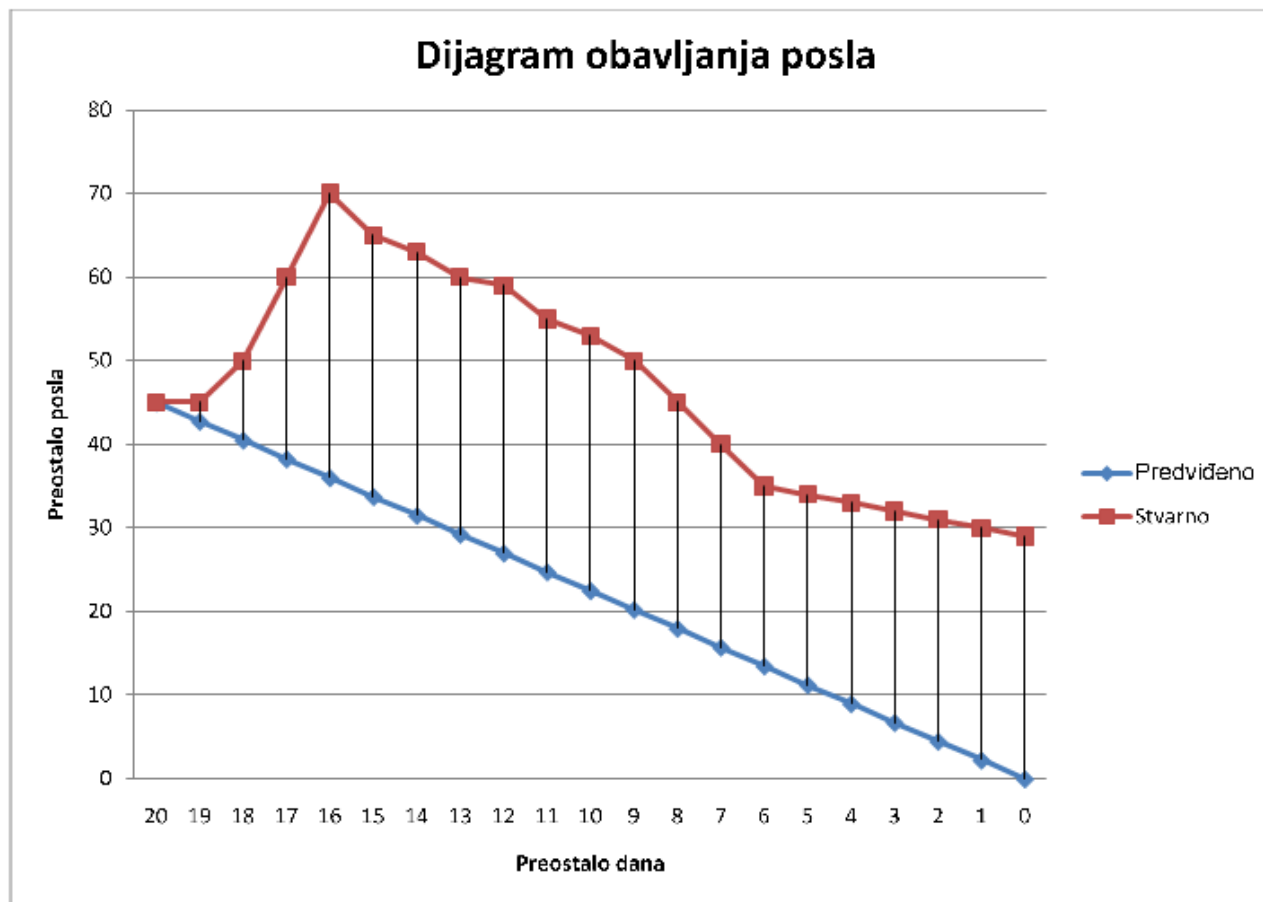
Dani	Dana preostalo	Predviđeno	Stvamo
0	20	45	45
1	19	42,75	45
2	18	40,5	40
3	17	38,25	37
4	16	36	36
5	15	33,75	35
6	14	31,5	35
7	13	29,25	33
8	12	27	29
9	11	24,75	26
10	10	22,5	24
11	9	20,25	21
12	8	18	18
13	7	15,75	16
14	6	13,5	14
15	5	11,25	12
16	4	9	9
17	3	6,75	7
18	2	4,5	4
19	1	2,25	2
20	0	0	0





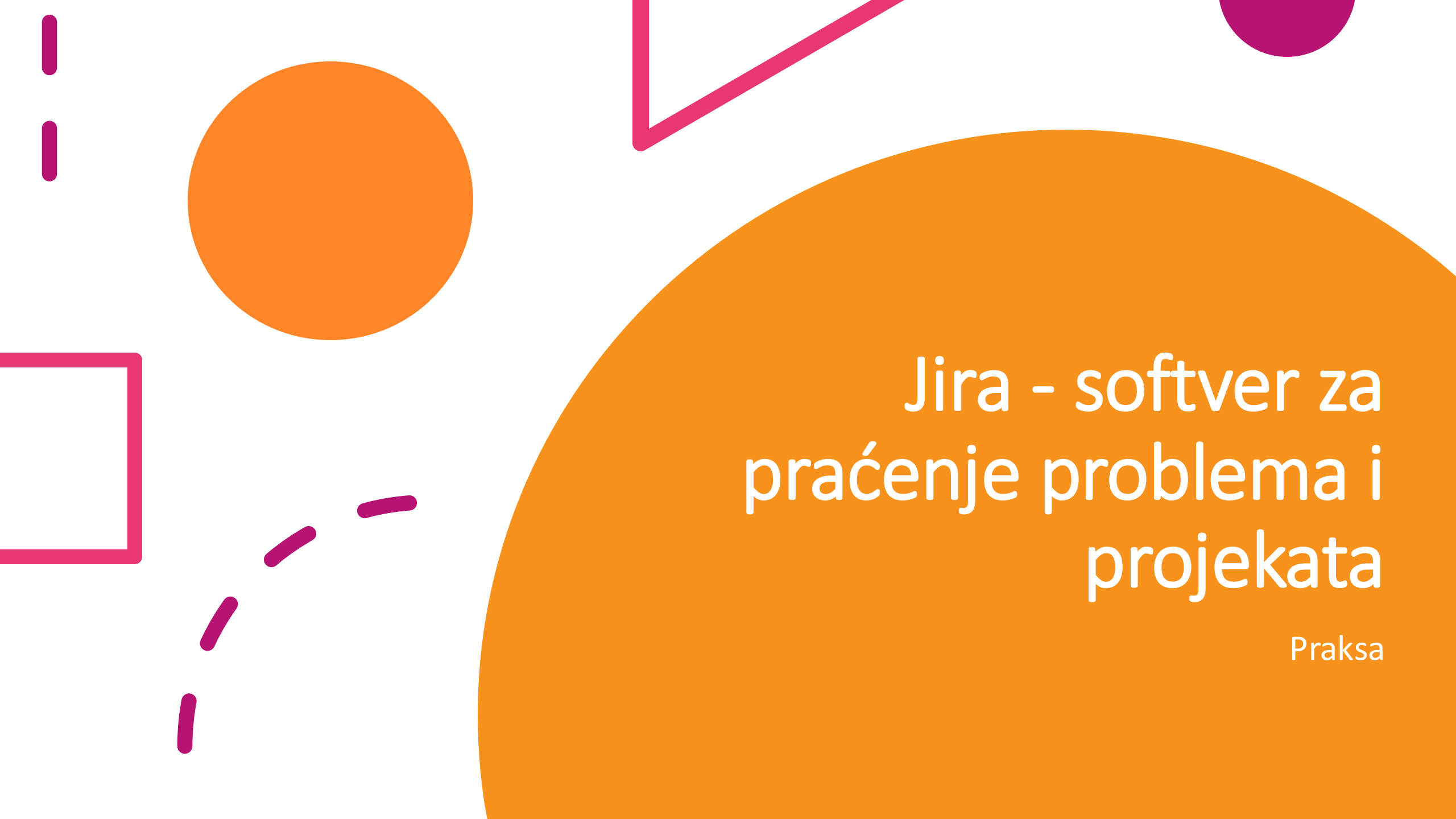
# Dijagram obavljanja posla

Dani	Dana preostalo	Predviđeno	Stvamo
0	20	45	45
1	19	42,75	45
2	18	40,5	50
3	17	38,25	60
4	16	36	70
5	15	33,75	65
6	14	31,5	63
7	13	29,25	60
8	12	27	59
9	11	24,75	55
10	10	22,5	53
11	9	20,25	50
12	8	18	45
13	7	15,75	40
14	6	13,5	35
15	5	11,25	34
16	4	9	33
17	3	6,75	32
18	2	4,5	31
19	1	2,25	30
20	0	0	29



# Ploča sa zadacima

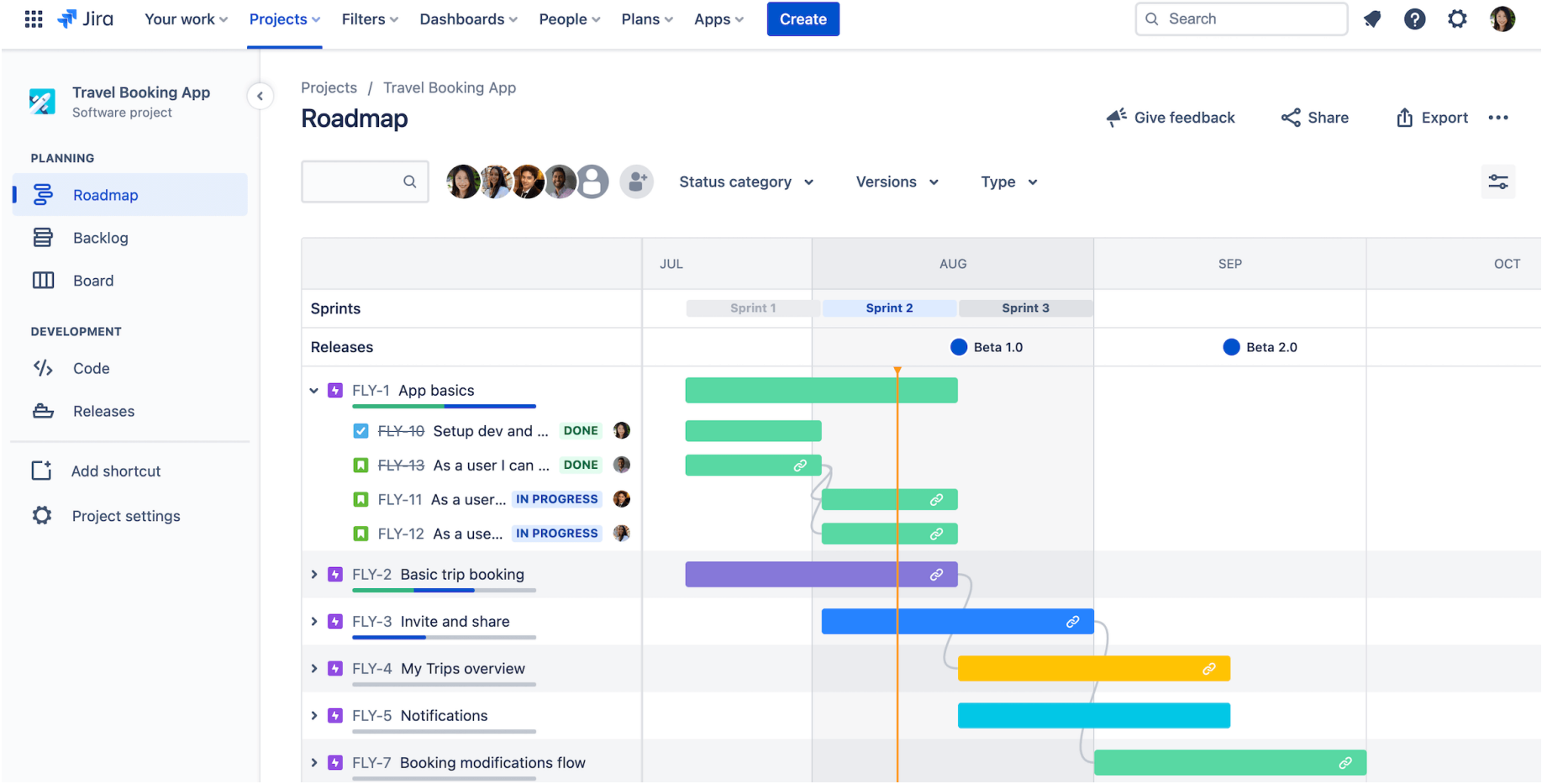
Za napraviti	Radi se na	Gotovi zadaci	Gotovi zahtjevi
			

The background features a large orange semi-circle on the right side. To its left, there is a smaller orange circle. Various pink geometric elements are scattered around: a dashed vertical line in the top left, a solid square outline on the left, a solid L-shaped line at the top, and several dashed curved lines in the bottom left. A small pink circle is partially visible in the top right corner.

# Jira - softver za praćenje problema i projekata

Praksa

# Jira Roadmap



# Jira Backlog

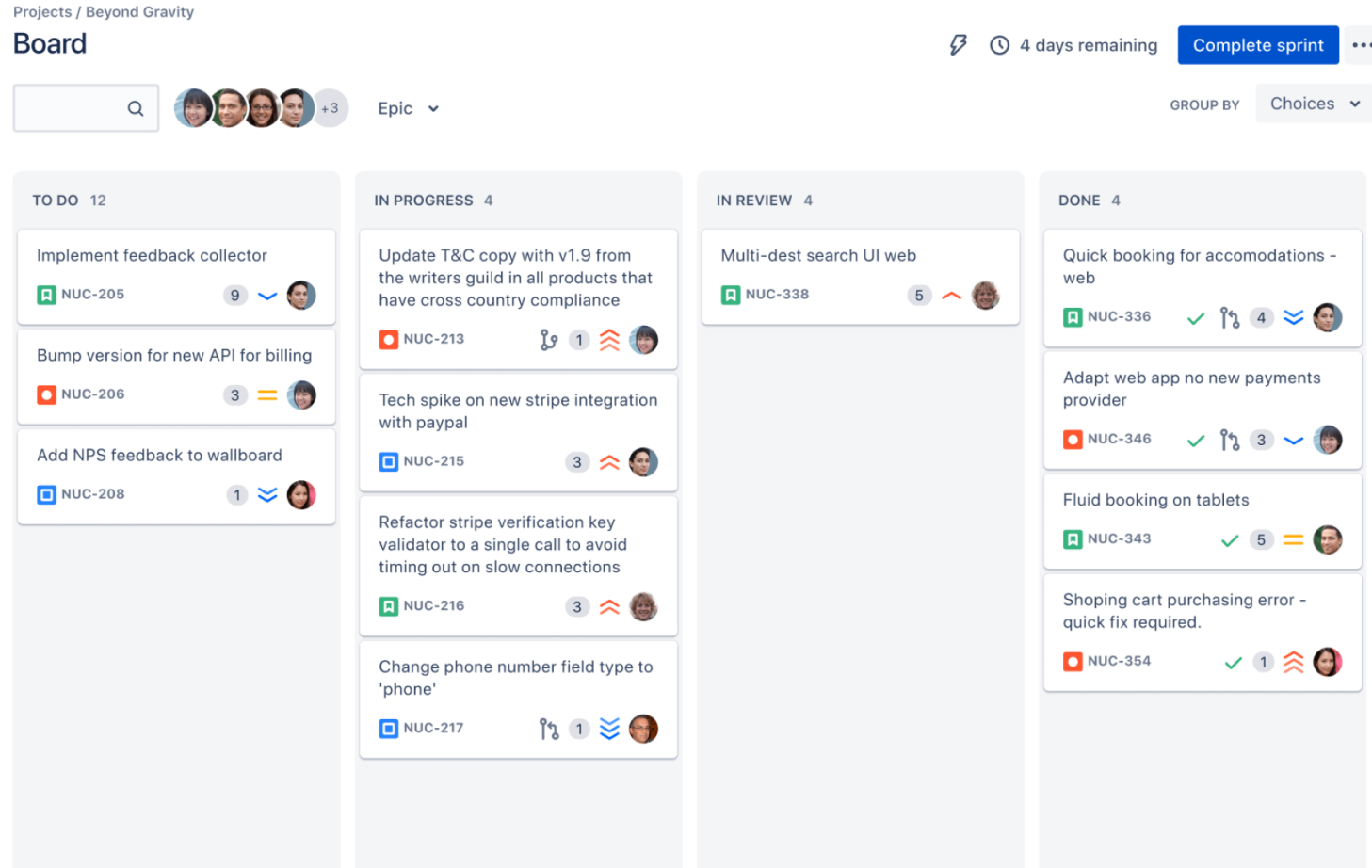
The screenshot displays the Jira Backlog interface for the project 'Teams in the Space'. On the left sidebar, navigation options include 'Kanban board', 'Backlog' (selected), 'Active sprints', 'Releases', 'Reports', 'Sprint plan', 'Issues', 'Components', 'Objects', and 'Add-ons'. Below these are 'PROJECT SHORTCUTS' with a prompt to 'Add a link to useful information for your whole team to see.'

The main 'Backlog' section features a search bar and 'QUICK FILTERS' for 'Only My Issues' and 'Recently Updated'. A 'Board' dropdown is in the top right. The 'Sprint 1' section shows '3 issues - ACTIVE' with a date range from 08/Jul/22 2:32 PM to 22/Jul/22 2:32 PM and a 'View linked pages' link. Below this, the 'Backlog' section lists '5 issues' with a 'Create sprint' button. The issues are:

- TIHP-8 Spaceship tracker app updates (Priority: High, Assignee: Mars Landing, Status: 2)
- TIHP-3 Send the pre-landing report to Earth (Priority: Medium, Assignee: [Avatar], Status: 1)
- TIHP-14 Request type isn't valid after issue type change (Priority: Medium, Assignee: [Avatar], Status: 0)
- TIHP-17 Set up a custom issue type (Priority: Medium, Assignee: [Avatar], Status: 0)
- TIHP-21 Spaceship tracker app updates (Priority: Medium, Assignee: [Avatar], Status: 0)

A '+ Create issue' button is located at the bottom of the backlog list.

# Jira Scrum Board



# Jira Epic

Projects / Espresso / BREW-13

## FY22 Launch Plan


Attach Create issue in epic Link issue

**Description**  
Add a description...

**Issues in this epic** Order by 25% Done

BREW-3	Comp. analysis—Custom menus	IN PROGRESS
BREW-4	Something's up with the load screen	DONE
BREW-11	Journey mapping workshop w/ Beanz	IN PROGRESS
BREW-5	Social content: Week 1	TO DO

**Activity**  
Show: All Comments History Work log Newest first

 Add a comment...  
Pro tip: press **M** to comment

**Details**

Assignee: Unassigned

Reporter: Jessie Spiteri

Labels: None

Epic Name: FY22 Launch Plan

Sprint: None

Priority: Medium

**More fields** Story Points, Original estimat...

Created 35 minutes ago  
Updated 1 second ago Configure

# Jira Story

The screenshot shows the Jira Software interface. At the top, there's a navigation bar with 'Jira Software', 'Your work', and a 'Projects' dropdown menu. A search bar and user profile icon are on the right. The left sidebar lists project navigation options: Roadmap, Backlog, Board, Pages, Add item, and Project settings. The main content area displays the issue 'Add Multilevel Navigation to Home Page' under the 'Travel App' project. It includes a description, activity feed, and a comment section. The right sidebar shows fields for Assignee, Labels, Sprint, Story point estimate, and Reporter, all set to 'None' or 'Julia Haleniuk'. At the bottom, it shows the creation and update timestamps.

**Jira Software** Your work **Projects** Filters Dashboards People Apps **Create**

**Travel App**  
Next-gen software proje...

Roadmap  
Backlog  
Board  
Pages  
Add item  
Project settings

Projects / **Travel App** / Add epic / TA-2

**Add Multilevel Navigation to Home Page**

Attach Add a child issue Link issue ...

**Description**  
As a user, I would like to be able to access all categories from a multi-level navigation on the home page, so that I can get around the site a lot faster.

**Activity**  
Show: **Comments** History

**JH**   
Pro tip: press **M** to comment

**To Do**

**Assignee**  
**JH** Julia Haleniuk

**Labels**  
None

**Sprint**  
None

**Story point estimate**  
None

**Reporter**  
**JH** Julia Haleniuk

Created May 3, 2020, 7:51 PM  
Updated May 3, 2020, 7:52 PM

You're in a next-gen project  
Give feedback Learn more



# Jira Burndown

