[19] [18] [18] [18] [18] [18] [18] [18] [18
Testing Date:
Content Testing - Database (diagram)
Client layer-user interface
HTML-script
Sewer Layer MebApp
Secret City ets (1/Sets 1/P)
These two layers interact with HTML & some suipt,
HTML presents the farm or some other structure to the
do user and when user submits the form or cliks button
Then the data is transmitted to sever layer using suipt
and at server layer, use application is running.
/ Server Layer - WebApp
1 the data
Lever layer - Date Transformation
app
From the part of sever layer where the data is residing.
the data is transformed to the part of server part where
data transformation will take place.
Seule Layer - Data Transformation
Juser data ← sqL
Sewer Layer - Data Management
Data transpormation which teamsform the uses data into squ
form and then transfer those squ queries to data management.
ATT A CONTROL OF THE SECTION OF THE

and when data is to be sent from database

to

used then this

	12.4
layer tronsforms the SQL regresult int	5 ht user data the form which
use will view))	
	Date:
Sewel layer-data management	
* Kaw data Sq L	
Database layer-data access	
Now the data (SQL format) will	be sent to data access layer
ef Dalabare layer which ensures	that he access policies are
not violated.	
(In case of data to be sent to	user from database, his
saw format data is being sent	to data mornagement layer).
	J
Database layer-data access	governity og skriver i mårine
Database	
When the data could be accessed	(Pt satisfied the access policies)
Then the data is accomed from	database or is sent to
database.	
Fox testinge	
It is to ensure that at user interface	ce layer, the data transmitted
to server layer is valid data and	The scripts are working
properly and extracts the correct	uses data to transfer.
the serverlayer is tested to ensur	e that the data to be
transmitted to database is extrac	ted peopelly from the
database script and is peoperly	
and him passed to appropriate	
	J
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Load Stiers Testing Date:
The state of the s
P= throughput that needs to be calculated
amount of work accomplished in given time pecied
N = no. of uses
T = teansactions
D = data transfer per transaction
Lonsider a popular sports news ête. At any given time,
Submil a light (a transcali T)
dounload news Acticle that averages 12 kbyles in knoth.
12 kg/les in kng/h.
N = 4000 uses
T = 30 sec = 1 transaction
1 sec = 1 = 0.0333 transactions per sec per user
D = 12 hlytes per transaction.
P = 4000 x 0.033 x 12 = 1600 k byte/s
network connection for the server would therefore have to
Support this civerage data rate of should be tested to ensure
that it does.

N = 5000 user

T = 20 sec = 1 transaction

1 sec = $\frac{1}{20}$ = 0.05 teansaction

T = 0.05 transaction per user per sec D = 15 kbyte

P (Theoreghput) = NXTXP

= 5000 x 0.05 x 15

= 3750 kbyte/s